

CERTIFIED ISO 31000:2018 RISK MANAGER

BOOK OF KNOWLEDGE



CERTIFIED ISO 31000:2018 RISK MANAGER BOOK OF KNOWLEDGE (BOK)

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

TABLE OF CONTENTS

1. INTRODUCTION TO ISO 31000:2018 RISK MANAGEMENT ARCHITECTURE	4
1.1 UNDERSTANDING RISK MANAGEMENT AND ISO 31000:2018'S FOCUS ON OBJECTIVES	4
1.2 THE IMPORTANCE OF RISK MANAGEMENT AND ITS HISTORICAL DEVELOPMENT	6
1.3 APPLICATIONS OF RISK MANAGEMENT	7
1.4 CONTRASTING VOLUNTARY AND MANDATORY FRAMEWORKS	8
1.5 INDUSTRY-SPECIFIC VERSUS GENERIC STANDARDS	9
2. EXPLORING THE STANDARD	11
2.1 ENGAGING EMPLOYEES IN GOAL-FOCUSED RISK MANAGEMENT	11
2.2 INTRODUCTION TO ISO 31000:2018	12
2.3 SCOPE OF THE STANDARD	13
2.4 KEY TERMS AND DEFINITIONS	15
2.5 DEFINING RISK AND ADDRESSING CONFLICTING OBJECTIVES	16
2.6 COMPREHENSIVE BREAKDOWN OF RISK	18
3. THE EIGHT PRINCIPLES	19
3.1 EXAMINING THE EIGHT PRINCIPLES OF RISK MANAGEMENT	19
3.2 IDENTIFYING INTERNAL RISK FACTORS	20
3.3 ANALYZING THE EIGHT PRINCIPLES IN DEPTH	21
3.3.1 STRUCTURED AND COMPREHENSIVE	21
3.3.2 CUSTOMIZED	24
3.3.3 TRANSPARENT AND INCLUSIVE	26
3.3.4 INFORMED BY THE BEST AVAILABLE INFORMATION	28
3.3.5 DYNAMIC AND RESPONSIVE	30
3.3.6 CONSIDERATE OF HUMAN AND CULTURAL FACTORS	31
3.3.7 CONTINUALLY IMPROVING	33
3.3.8 CREATING AND PROTECTING VALUE	34
4. DEVELOPING YOUR RISK MANAGEMENT FRAMEWORK	36

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

4.1 CONSTRUCTING YOUR OWN RISK MANAGEMENT FRAMEWORK	36
4.2 BECOMING A CHANGE-DRIVEN LEADER	39
4.3 GUIDELINES FOR BUILDING THE FRAMEWORK	43
4.4 CONSIDERING INTERNAL AND EXTERNAL CONTEXT.....	45
4.5 RESOURCE ALLOCATION FOR RISK MANAGEMENT	47
4.6 IMPLEMENTATION OF THE FRAMEWORK.....	48
4.7 EVALUATING THE EFFECTIVENESS OF YOUR FRAMEWORK.....	50
5. THE RISK MANAGEMENT PROCESS.....	51
 UNDERSTANDING RISK MANAGEMENT'S THREE STEPS.....	52
 STEP 1: CONTEXTUALIZING RISK MANAGEMENT	52
 DEFINING METHODS FOR MEASURING RISK CRITERIA	53
 STEP 2: RISK ASSESSMENT	55
 IDENTIFYING RISKS	56
 ANALYZING RISKS (PART 1)	57
 ANALYZING RISKS (PART 2)	59
 EVALUATING RISKS.....	60
 STEP 3: RISK TREATMENT.....	63
 EXPLORING VARIOUS OPTIONS FOR RISK TREATMENT	65
APPENDICES	66
 GLOSSARY OF TERMS	66
 ADDITIONAL RESOURCES	68
 SAMPLE TEMPLATES AND TOOLS.....	68
 REFERENCES AND FURTHER READING	69
MCQ'S:.....	70

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

1. INTRODUCTION TO ISO 31000:2018 RISK MANAGEMENT ARCHITECTURE

This chapter introduces the concept and scope of risk management, as well as the main features and benefits of ISO 31000:2018, the international standard for risk management. It also provides a historical overview of the development of risk management and its applications in various domains and contexts. Finally, it compares and contrasts different types of risk management frameworks and standards, highlighting their advantages and disadvantages.

1.1 Understanding Risk Management and ISO 31000:2018's Focus on Objectives

Risk management is the process of identifying, assessing, and treating risks that may affect the achievement of objectives. Objectives are the desired results or outcomes that an organization or a person aims to achieve in a given context. Objectives can be strategic, operational, financial, social, environmental, or any other relevant aspect of performance or value creation.

Risks are the effects of uncertainty on objectives. Uncertainty is the state of not knowing or being able to predict what will happen in the future. Uncertainty can arise from various sources, such as internal or external factors, changes, events, threats, opportunities, assumptions, or judgments. Uncertainty can have positive or negative effects on objectives, depending on the nature and magnitude of the deviation from the expected outcome.

Risk management helps organizations and individuals to make informed decisions, optimize opportunities, and minimize negative consequences.

Risk management involves the following steps:

- **Establishing the context:** defining the scope, objectives, criteria, and stakeholders of risk management
- **Identifying risks:** finding and describing the sources, causes, and consequences of uncertainty
- **Analyzing risks:** estimating the likelihood and impact of uncertainty on objectives
- **Evaluating risks:** comparing the level of risk with the risk criteria and the risk appetite
- **Treating risks:** selecting and implementing the appropriate risk response strategies, such as avoiding, reducing, sharing, or accepting risks

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Monitoring and reviewing risks: measuring and reporting the performance and effectiveness of risk management and updating the risk information
- Communicating and consulting: engaging and informing the relevant stakeholders about the risk management process and outcomes

ISO 31000:2018 is an international standard that provides principles, guidelines, and a common vocabulary for risk management.

ISO 31000:2018 is based on the following principles:

- **Risk management creates and protects value:** it contributes to the achievement of objectives and the improvement of performance
- **Risk management is an integral part of all organizational activities:** it is embedded in the governance, strategy, planning, and operations of the organization
- **Risk management is part of decision making:** it helps to make informed choices and prioritize actions
- **Risk management explicitly addresses uncertainty:** it recognizes and analyzes the sources and effects of uncertainty on objectives
- **Risk management is systematic, structured, and timely:** it follows a logical and consistent process that is aligned with the context and objectives
- **Risk management is based on the best available information:** it uses historical, current, and future data and evidence from various sources and perspectives
- **Risk management is tailored:** it is customized to the specific needs, objectives, and characteristics of the organization and the context
- **Risk management takes human and cultural factors into account:** it considers the behaviors, values, perceptions, and expectations of the people involved or affected by risk management
- **Risk management is transparent and inclusive:** it involves and communicates with the relevant stakeholders in an open and respectful manner
- **Risk management is dynamic, iterative, and responsive to change:** it monitors and reviews the internal and external changes that may affect the risk management process and outcomes
- **Risk management facilitates continual improvement and enhancement of the organization:** it learns from experience and feedback and adapts to the changing environment and needs

Some of the benefits of applying ISO 31000:2018 to risk management are:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- It helps to create and protect value for the organization and its stakeholders
- It supports decision making and performance improvement
- It enhances governance, accountability, and transparency
- It fosters a risk-aware culture and stakeholder engagement
- It enables continual learning and adaptation

1.2 The Importance of Risk Management and its Historical Development

Risk management is important for any organization that operates in a complex and uncertain environment. Risk management helps to ensure the sustainability, resilience, and competitiveness of the organization, as well as its compliance with legal and ethical obligations.

Risk management is also important for individuals who face uncertainty and variability in their personal and professional lives. Risk management helps to enhance their well-being, safety, and quality of life, as well as their ability to achieve their goals and aspirations.

Risk management has a long and diverse history, dating back to ancient times when people used various methods to cope with natural and human-made hazards.

Some of the milestones in the evolution of risk management are:

- The development of probability theory and statistics in the 17th and 18th centuries, which enabled the quantification and analysis of risks. For example, Blaise Pascal and Pierre de Fermat formulated the rules of probability to solve a gambling problem, while Jacob Bernoulli and Abraham de Moivre applied the law of large numbers and the normal distribution to model the frequency and variation of events.
- The emergence of insurance and financial markets in the 18th and 19th centuries, which provided mechanisms for risk transfer and diversification. For example, Lloyd's of London established the first insurance market to cover the losses of ship owners, while the Chicago Board of Trade created the first futures and options contracts to hedge against the price fluctuations of agricultural commodities.
- The rise of scientific management and systems engineering in the 20th century, which introduced systematic and rational approaches to risk identification and control. For example, Frederick Taylor and Henry Ford applied the principles of efficiency and standardization to optimize the production processes and reduce the waste and errors, while W. Edwards

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Deming and Joseph Juran developed the methods and tools of quality management and control to improve the reliability and performance of products and services.

- The expansion of risk management to various domains and disciplines in the late 20th and early 21st centuries, such as health, safety, environment, quality, security, project, and enterprise risk management. For example, the World Health Organization established the International Health Regulations to prevent and respond to the global health risks, while the Project Management Institute published the Project Management Body of Knowledge to guide the risk management of projects, programs, and portfolios.
- The adoption of risk management standards and frameworks, such as ISO 31000:2018, which provide guidance and best practices for risk management across different sectors and contexts. For example, the International Organization for Standardization developed ISO 31000:2018 as a generic and voluntary standard for risk management, while the Committee of Sponsoring Organizations of the Treadway Commission developed COSO ERM as a mandatory and industry-specific framework for risk management in the financial sector.

1.3 Applications of Risk Management

Risk management can be applied to any activity, process, function, project, program, portfolio, or organization that involves uncertainty and variability. Risk management can also be applied to any type of risk, such as strategic, operational, financial, reputational, legal, regulatory, environmental, social, or technological risks.

Some of the examples of risk management applications are:

- Developing a risk management policy and framework for the organization, which defines the scope, objectives, criteria, roles, responsibilities, and processes of risk management, as well as the tools and resources to support it.
- Establishing a risk management culture and awareness among the staff and stakeholders, which promotes the values, behaviors, and attitudes that support risk management, such as risk identification, reporting, learning, and improvement.
- Conducting a risk assessment and analysis for a new product, service, or initiative, which identifies the sources, causes, and consequences of

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

uncertainty, estimates the likelihood and impact of uncertainty on objectives, and evaluates the level of risk against the risk criteria and the risk appetite.

- Implementing risk treatment and mitigation strategies for the identified risks, which selects and implements the appropriate risk response strategies, such as avoiding, reducing, sharing, or accepting risks, and monitors and reviews their effectiveness and efficiency.
- Monitoring and reviewing the risk management performance and effectiveness, which measures and reports the results and outcomes of risk management, such as the achievement of objectives, the reduction of risks, the improvement of performance, and the satisfaction of stakeholders.
- Reporting and communicating the risk management results and outcomes, which informs and engages the relevant stakeholders about the risk management process and outcomes, such as the risk profile, the risk treatment plans, the risk management performance, and the risk management feedback and lessons learned.

1.4 Contrasting Voluntary and Mandatory Frameworks

Risk management frameworks are sets of principles, processes, methods, tools, and techniques that guide and support the implementation of risk management. Risk management frameworks can be classified into two categories: voluntary and mandatory.

Voluntary frameworks are those that are developed and adopted by the organization itself, based on its own needs, objectives, and preferences. Voluntary frameworks can be customized and flexible, but they may also lack consistency and comparability with other organizations.

Mandatory frameworks are those that are imposed by external authorities, such as regulators, customers, investors, or industry associations. Mandatory frameworks can provide standardization and credibility, but they may also be rigid and prescriptive, limiting the organization's autonomy and innovation.

Some of the advantages and disadvantages of voluntary and mandatory frameworks are:

Framework type	Advantages	Disadvantages
Voluntary	- Allows the organization to tailor the risk management	- May not meet the expectations or requirements

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

	<p>framework to its specific context and objectives</p> <ul style="list-style-type: none"> - Encourages the organization to adopt a proactive and continuous approach to risk management - Fosters the organization's ownership and commitment to risk management 	<p>of the external stakeholders</p> <ul style="list-style-type: none"> - May not be consistent or comparable with the risk management practices of other organizations - May not be sufficiently rigorous or comprehensive to address the complexity and uncertainty of the environment
Mandatory	<ul style="list-style-type: none"> - Provides the organization with a clear and common set of requirements and criteria for risk management - Enhances the organization's reputation and credibility with the external stakeholders - Facilitates the organization's benchmarking and learning from the best practices of other organizations 	<ul style="list-style-type: none"> - May not be relevant or applicable to the specific context and objectives of the organization - May discourage the organization from developing its own risk management capabilities and initiatives - May constrain the organization's creativity and innovation in risk management

Some of the examples of voluntary and mandatory frameworks are:

- Voluntary frameworks: ISO 31000:2018, COSO ERM, PMBOK, PRINCE2, etc.
- Mandatory frameworks: Basel III, Sarbanes-Oxley Act, GDPR, ISO 27001, etc.

1.5 Industry-Specific versus Generic Standards

Risk management standards are documents that specify the requirements, criteria, or characteristics of risk management for a particular industry, sector, or domain. Risk management standards can be either industry-specific or generic.

Industry-specific standards are those that are tailored to the specific needs, challenges, and practices of a particular industry, sector, or domain. Industry-specific standards can be more relevant and applicable, but they may also be more complex and costly to implement and maintain.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Generic standards are those that are applicable to any industry, sector, or domain, regardless of their specificities. Generic standards can be simpler and more universal, but they may also be more abstract and generic, requiring adaptation and interpretation for each context.

Some of the advantages and disadvantages of industry-specific and generic standards are:

Standard type	Advantages	Disadvantages
Industry-specific	<ul style="list-style-type: none"> - Addresses the specific risks and issues that are relevant and important for a particular industry, sector, or domain - Reflects the best practices and experiences of the experts and practitioners in a particular industry, sector, or domain - Enhances the credibility and recognition of the organization within a particular industry, sector, or domain 	<ul style="list-style-type: none"> - May not cover the risks and issues that are common or emerging across different industries, sectors, or domains - May not be compatible or consistent with the standards of other industries, sectors, or domains - May require more resources and expertise to implement and maintain
Generic	<ul style="list-style-type: none"> - Covers the general principles and guidelines that are applicable and useful for any industry, sector, or domain - Allows the organization to adapt and customize the standard to its specific context and objectives - Enables the organization to learn and adopt the good practices of other industries, sectors, or domains 	<ul style="list-style-type: none"> - May not address the specific risks and issues that are unique or critical for a particular industry, sector, or domain - May be too vague or broad to provide clear and practical guidance for risk management - May require more interpretation and judgment to apply the standard to a particular context

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Some of the examples of industry-specific and generic standards are:

- Industry-specific standards: ISO 22301 (Business Continuity), ISO 28000 (Supply Chain Security), ISO 45001 (Occupational Health and Safety), etc.
- Generic standards: ISO 31000:2018 (Risk Management), ISO 9001 (Quality Management), ISO 14001 (Environmental Management), etc.

2. EXPLORING THE STANDARD

2.1 Engaging Employees in Goal-Focused Risk Management

Risk management is not only a technical or managerial function, but also a cultural and behavioral one. To achieve the benefits of risk management, organizations need to engage their employees in the process of identifying, assessing, and managing the risks and opportunities that affect their goals and performance.

Engaging employees in risk management can help organizations to:

- **Improve their risk awareness and understanding:** Employees can provide valuable insights and information about the sources, events, causes, and consequences of risks that may not be visible or accessible to the managers or experts. By engaging employees in risk identification and assessment, organizations can gain a more comprehensive and realistic view of their risk profile and exposure.
- **Enhance their communication and collaboration:** Employees can share their knowledge, experience, and opinions on the risks and opportunities that they face or observe in their work. By engaging employees in risk communication and consultation, organizations can foster a culture of trust, transparency, and dialogue among different stakeholders and teams.
- **Encourage their innovation and effectiveness:** Employees can propose and implement creative and practical solutions to manage the risks and opportunities that they encounter or anticipate in their work. By engaging employees in risk treatment and monitoring, organizations can stimulate a culture of learning, improvement, and value creation.

To engage employees in goal-focused risk management, organizations should consider the following strategies:

- **Aligning the risk management objectives and processes with the organization's vision, mission, values, and strategies:** Employees should

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

understand how risk management supports and enables the achievement of the organization's goals and values. Organizations should communicate and demonstrate the purpose, benefits, and expectations of risk management to their employees, and align their risk management policies, procedures, and practices with their strategic and operational plans.

- Defining and communicating the roles and responsibilities of employees in risk management: Employees should know what they are expected to do and how they are supported in risk management. Organizations should define and assign the roles and responsibilities of employees in risk management, and provide them with clear and consistent guidance and feedback on their performance and contribution.
- Providing the necessary training, tools, and resources to enable employees to identify, assess, treat, monitor, and report risks: Employees should have the skills, knowledge, and capabilities to perform their risk management tasks and activities. Organizations should provide their employees with adequate and appropriate training, tools, and resources to help them identify, assess, treat, monitor, and report risks, and to facilitate their learning and development.
- Involving employees in the risk management decision-making and planning: Employees should have the opportunity and authority to influence and shape the risk management process and outcomes. Organizations should involve their employees in the risk management decision-making and planning, and solicit and consider their input and feedback on the risk management issues and actions.
- Recognizing and rewarding the employees' contributions and achievements in risk management: Employees should feel valued and motivated for their risk management efforts and results. Organizations should recognize and reward their employees' contributions and achievements in risk management, and celebrate and share their success and learning.

2.2 Introduction to ISO 31000:2018

ISO 31000:2018 is the international standard for risk management, published by the International Organization for Standardization (ISO) in 2018. The standard provides a set of principles, guidelines, and framework for designing, implementing, maintaining, and improving risk management in any organization, regardless of its size, type, nature, or activities. The standard is not a certification or compliance requirement, but rather a voluntary and flexible guide that can be adapted and applied to different contexts and purposes.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

The main objectives of ISO 31000:2018 are to:

- **Help organizations integrate risk management into all aspects of their governance, strategy, planning, operations, and culture:** The standard emphasizes that risk management should be an integral part of the organization's management system and culture, and that it should support and enable the achievement of the organization's objectives and the creation of value. The standard also provides guidance on how to establish, implement, and maintain a risk management framework that is aligned and integrated with the organization's governance, strategy, planning, operations, and culture.
- **Support organizations in achieving their objectives and creating value by managing risks and opportunities:** The standard recognizes that risk management is not only about avoiding or reducing negative consequences, but also about identifying and exploiting positive opportunities. The standard defines risk as the effect of uncertainty on objectives, and encourages organizations to manage risk in a way that enhances their performance and value creation.
- **Enhance the consistency, comparability, and transparency of risk management practices and outcomes:** The standard provides a common language and framework for risk management, and helps organizations to communicate and compare their risk management practices and outcomes with their stakeholders, regulators, and peers. The standard also promotes the disclosure and reporting of risk management information and results, and supports the accountability and assurance of risk management.
- **Promote the continual improvement and innovation of risk management processes and capabilities:** The standard encourages organizations to monitor, review, and evaluate their risk management processes and capabilities, and to identify and implement any changes, gaps, or opportunities for improvement. The standard also fosters the learning and innovation of risk management, and supports the adaptation and evolution of risk management in response to the changing internal and external environment.

2.3 Scope of the Standard

The scope of ISO 31000:2018 covers the following aspects of risk management:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **The principles that provide the foundation and direction for effective risk management:** The standard outlines eight principles that guide the design, implementation, and improvement of risk management in an organization. These principles are: integrated, structured and comprehensive, customized, inclusive, dynamic, best available information, human and cultural factors, and continual improvement.
- **The framework that enables the integration and alignment of risk management with the organization's objectives, strategies, processes, and culture:** The standard describes the components and activities of a risk management framework that provides the foundations and arrangements for risk management throughout the organization. These components and activities are: leadership and commitment, integration, design, implementation, evaluation, and improvement.
- **The process that describes the systematic and iterative steps for identifying, analyzing, evaluating, treating, monitoring, and communicating risks:** The standard defines the steps and tasks of a risk management process that applies the policies, procedures, and practices of risk management to the activities of communicating, consulting, establishing the context, identifying, analyzing, evaluating, treating, monitoring, and reviewing risk.

The scope of ISO 31000:2018 does not cover the following aspects of risk management:

- **The detailed methods, techniques, or tools for performing each step of the risk management process:** The standard does not prescribe or recommend any specific methods, techniques, or tools for risk identification, analysis, evaluation, treatment, monitoring, or communication. The standard acknowledges that there are various methods, techniques, and tools available and suitable for different purposes and contexts, and that the organization should select and apply the ones that best fit their needs and objectives.
- **The specific requirements or criteria for assessing or measuring the level, impact, or acceptability of risks:** The standard does not define or impose any specific requirements or criteria for determining or measuring the level, impact, or acceptability of risks. The standard recognizes that the level, impact, and acceptability of risks depend on the objectives, criteria, and appetite of the organization and its stakeholders, and that the organization should establish and apply its own risk criteria and appetite.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **The prescriptive or normative recommendations or solutions for managing particular types of risks or situations:** The standard does not provide or endorse any prescriptive or normative recommendations or solutions for managing any specific types or categories of risks or situations. The standard acknowledges that the management of risks and situations depends on the context, objectives, and preferences of the organization and its stakeholders, and that the organization should decide and implement the most appropriate and effective options and actions for managing its risks and situations.

2.4 Key Terms and Definitions

ISO 31000:2018 defines some key terms and concepts that are essential for understanding and applying the standard. Some of these terms and definitions are:

- **Risk:** the effect of uncertainty on objectives. This definition implies that risk is not an inherent property of an event, situation, or condition, but rather a function of how it affects the achievement of the organization's objectives. Therefore, risk can be positive or negative, depending on whether it creates or reduces value for the organization.
- **Effect:** a deviation from the expected, which can be positive, negative, or both. This definition implies that an effect can be an outcome or an impact of an event, situation, or condition, or a change in the level of performance or variability of an objective. Therefore, an effect can be beneficial or detrimental, or both, for the organization.
- **Uncertainty:** the state of deficiency of information related to an event, its consequence, or likelihood. This definition implies that uncertainty can be due to the lack, incompleteness, unreliability, or ambiguity of information about an event, its consequence, or likelihood, or the variability or unpredictability of an event, its consequence, or likelihood. Therefore, uncertainty can be a source of risk or opportunity, or both, for the organization.
- **Objectives:** the results or outcomes that an organization intends to achieve. This definition implies that objectives can be expressed in different ways, such as in terms of vision, mission, values, strategies, policies, plans, projects, processes, or performance indicators. Therefore, objectives can be set and measured at different levels and for different purposes in the organization.
- **Risk management:** the coordinated activities to direct and control an organization with regard to risk. This definition implies that risk

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

management is a set of interrelated and interdependent activities that aim to direct and control the organization's exposure and response to risk. Therefore, risk management can be applied to any aspect or function of the organization, and can support and enable the achievement of the organization's objectives and the creation of value.

- **Risk management framework:** the set of components that provide the foundations and arrangements for designing, implementing, monitoring, reviewing, and continually improving risk management throughout the organization. This definition implies that a risk management framework is a system that establishes, maintains, and improves the risk management process and capabilities in the organization. Therefore, a risk management framework can be integrated and aligned with the organization's governance, strategy, planning, operations, and culture.
- **Risk management process:** the systematic application of policies, procedures, and practices to the activities of communicating, consulting, establishing the context, identifying, analyzing, evaluating, treating, monitoring, and reviewing risk. This definition implies that a risk management process is a sequence of steps and tasks that apply the risk management policies, procedures, and practices to the specific activities of risk management. Therefore, a risk management process can be customized and adapted to different purposes and contexts in the organization.
- **Stakeholder:** any person or organization that can affect, be affected by, or perceive themselves to be affected by a decision or activity. This definition implies that a stakeholder can have a direct or indirect interest or influence on a decision or activity, and can have a positive or negative perception or expectation of a decision or activity. Therefore, a stakeholder can be internal or external to the organization, and can have different roles and responsibilities in risk management.

2.5 Defining Risk and Addressing Conflicting Objectives

According to ISO 31000:2018, risk is defined as the effect of uncertainty on objectives. This definition implies that risk is not an inherent property of an event, situation, or condition, but rather a function of how it affects the achievement of the organization's objectives. Therefore, risk can be positive or negative, depending on whether it creates or reduces value for the organization. For example, launching a new product can be a positive risk if it increases the market share and revenue, or a negative risk if it fails to meet the customer expectations and damages the reputation.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

However, defining risk and its effects can be challenging, especially when there are conflicting or competing objectives among different stakeholders. For instance, reducing the environmental impact of a project can be a positive risk for the society and the regulators, but a negative risk for the investors and the contractors. Therefore, risk management should consider the perspectives and interests of all relevant stakeholders, and seek to balance and optimize the trade-offs and synergies among different objectives. To do so, risk management should follow these steps:

- **Establishing the context:** defining the scope, objectives, criteria, and boundaries of risk management, and identifying the internal and external factors and stakeholders that influence the risk profile. This step helps to clarify the purpose, scope, and parameters of risk management, and to understand the environment and the stakeholders that affect or are affected by the risk management process and outcomes.
- **Communicating and consulting:** engaging with the stakeholders to exchange information, views, and feedback on the risk management process and outcomes. This step helps to establish and maintain the relationships and trust with the stakeholders, and to solicit and consider their input and feedback on the risk management issues and actions.
- **Identifying risks:** finding, recognizing, and describing the sources, events, causes, and scenarios that can affect the objectives. This step helps to generate a comprehensive and realistic list of potential risks that may affect the achievement of the objectives, and to describe their characteristics and implications.
- **Analyzing risks:** determining the nature, characteristics, and level of risks, based on the likelihood and consequence of the effects. This step helps to understand and measure the level of risks, and to identify the factors that influence the likelihood and consequence of the effects.
- **Evaluating risks:** comparing the level of risks with the risk criteria and the risk appetite, and prioritizing the risks for treatment. This step helps to decide which risks need to be treated and in what order, and to consider the benefits and costs of treating the risks.
- **Treating risks:** selecting and implementing the appropriate options and actions to modify, control, or exploit the risks. This step helps to reduce the negative risks or enhance the positive risks, and to create value for the organization and its stakeholders.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **Monitoring and reviewing:** tracking, measuring, and assessing the performance and effectiveness of the risk management process and treatment, and identifying any changes, gaps, or opportunities for improvement. This step helps to ensure that the risk management process and treatment are working as intended, and to identify and respond to any changes in the risk profile, environment, or objectives.

2.6 Comprehensive Breakdown of Risk

Risk can be broken down into different dimensions or components, depending on the purpose and context of risk management. ISO 31000:2018 suggests some possible ways to breakdown risk, such as:

- **By source:** the element or factor that alone or in combination has the potential to give rise to risk. For example, natural hazards, human errors, technological failures, market fluctuations, etc. Breaking down risk by source can help to identify and understand the origin and nature of risk, and to design and implement the appropriate measures to prevent or mitigate the risk.
- **By event:** the occurrence or change of a particular set of circumstances that can affect the objectives. For example, fire, flood, cyberattack, accident, etc. Breaking down risk by event can help to identify and understand the triggers and scenarios of risk, and to design and implement the appropriate measures to avoid or respond to the risk.
- **By cause:** the factor or factors that contribute to the occurrence or outcome of an event. For example, faulty design, poor maintenance, inadequate training, malicious intent, etc. Breaking down risk by cause can help to identify and understand the root causes and drivers of risk, and to design and implement the appropriate measures to eliminate or reduce the risk.
- **By consequence:** the outcome or impact of an event on the objectives. For example, loss of life, property damage, financial loss, reputation damage, etc. Breaking down risk by consequence can help to identify and understand the effects and impacts of risk, and to design and implement the appropriate measures to recover or compensate for the risk.
- **By likelihood:** the chance of something happening, whether defined, measured, or estimated objectively or subjectively. For example, frequency, probability, possibility, etc. Breaking down risk by likelihood can help to identify and understand the uncertainty and variability of risk, and to design and implement the appropriate measures to control or influence the risk.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **By level:** the magnitude of a risk or the combination of its consequences and likelihood. For example, high, medium, low, etc. Breaking down risk by level can help to identify and understand the severity and priority of risk, and to design and implement the appropriate measures to manage or accept the risk.
- **By type:** the nature or category of a risk or its consequences. For example, strategic, operational, financial, reputational, legal, environmental, etc. Breaking down risk by type can help to identify and understand the characteristics and implications of risk, and to design and implement the appropriate measures to address or exploit the risk.

3. THE EIGHT PRINCIPLES

The eight principles of risk management are the fundamental guidelines and values that should guide and inform the risk management activities within an organization. They are derived from the international standards and best practices of risk management, such as ISO 31000 and COSO ERM. The eight principles are:

- **Structured and comprehensive**
- **Customized**
- **Transparent and inclusive**
- **Informed by the best available information**
- **Dynamic and responsive**
- **Considerate of human and cultural factors**
- **Continually improving**
- **Creating and protecting value**

3.1 Examining the Eight Principles of Risk Management

The eight principles of risk management are not independent or isolated from each other, but rather interrelated and interdependent. They should be applied in a holistic and integrated manner, taking into account the specific context and objectives of the organization and its stakeholders. The eight principles of risk management can be examined from three perspectives: why, what, and how.

1. **Why:** The rationale and benefits of applying the principle, and the consequences and risks of not applying it. This perspective helps to justify and motivate the adoption and implementation of the principle, and to evaluate and measure its effectiveness and efficiency.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

2. **What:** The main characteristics and features of the principle, and the key requirements and expectations for implementing it. This perspective helps to define and describe the principle, and to establish and communicate its scope and criteria.
3. **How:** The practical guidance and examples of applying the principle, and the potential challenges and solutions for overcoming them. This perspective helps to demonstrate and illustrate the principle, and to provide and share the best practices and lessons learned.

3.2 Identifying Internal Risk Factors

Internal risk factors are the sources of uncertainty and variability that originate from within the organization and affect its ability to achieve its objectives and fulfill its mission. Internal risk factors can be classified into four categories: strategic, operational, financial, and compliance. Each category can be further subdivided into more specific domains and elements, depending on the nature and scope of the organization and its activities.

Some examples of internal risk factors are:

- **Strategic:** These are the risks that relate to the direction, vision, mission, goals, objectives, strategies, plans, policies, and procedures of the organization, and how they align with the external environment, the market, the competition, the innovation, the reputation, and the stakeholders. Some examples of strategic risks are: changes in customer needs and preferences, emergence of new competitors or substitutes, loss of market share or brand value, failure to innovate or adapt, etc.
- **Operational:** These are the risks that relate to the execution, performance, quality, efficiency, effectiveness, reliability, availability, security, safety, health, and environment of the organization's processes, systems, technology, equipment, infrastructure, resources, capabilities, and activities. Some examples of operational risks are: human errors or mistakes, process failures or inefficiencies, system breakdowns or malfunctions, equipment damage or loss, resource shortages or wastages, capability gaps or mismatches, performance deviations or delays, quality defects or reworks, security breaches or incidents, safety hazards or accidents, health issues or illnesses, environmental impacts or harms, etc.
- **Financial:** These are the risks that relate to the income, expenditure, cash flow, assets, liabilities, equity, budget, forecast, variance, profitability, liquidity, solvency, capital, investment, financing, accounting, reporting, and

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

auditing of the organization's finances and resources. Some examples of financial risks are: revenue shortfalls or declines, expense overruns or increases, cash flow imbalances or disruptions, asset impairments or devaluations, liability defaults or claims, equity dilutions or erosions, budget deviations or adjustments, forecast inaccuracies or uncertainties, variance analyses or explanations, profitability reductions or losses, liquidity shortages or insolvencies, solvency impairments or bankruptcies, capital inadequacies or inefficiencies, investment losses or impairments, financing difficulties or costs, accounting errors or frauds, reporting delays or inaccuracies, auditing failures or issues, etc.

- **Compliance:** These are the risks that relate to the adherence, conformity, alignment, and compatibility of the organization's activities, processes, systems, and outputs with the applicable and relevant laws, regulations, standards, codes, contracts, agreements, obligations, commitments, ethics, values, culture, governance, risk management, internal control, and assurance. Some examples of compliance risks are: legal violations or penalties, regulatory breaches or sanctions, standard non-conformities or deviations, code violations or infractions, contract breaches or disputes, agreement violations or terminations, obligation defaults or failures, commitment reneges or changes, ethical lapses or dilemmas, value conflicts or trade-offs, cultural clashes or misunderstandings, governance failures or weaknesses, risk management deficiencies or gaps, internal control failures or breakdowns, assurance failures or limitations, etc.

3.3 Analyzing the Eight Principles in Depth

The following sections provide a detailed analysis of each of the eight principles of risk management, using the why, what, and how framework. For each principle, the rationale and benefits, the main characteristics and features, and the practical guidance and examples are discussed.

3.3.1 Structured and comprehensive

Risk management should be organized and systematic, and cover all aspects and levels of the organization and its activities.

Why:

- Improves the consistency, coherence, and completeness of the risk management process and outcomes, by ensuring that the same or similar approaches, methods, tools, and techniques are used throughout the

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

organization and its activities, and that all the relevant and significant risks and their effects are identified, assessed, treated, monitored, and reviewed.

- Enables the identification and assessment of the interrelationships and interdependencies among the risks and their effects, by providing a holistic and integrated view of the risk profile and exposure of the organization and its activities, and how they influence and impact each other.
- Supports the prioritization and allocation of the resources and responsibilities for the risk management process and outcomes, by facilitating the comparison and evaluation of the risks and their effects across the organization and its activities, and the assignment and accountability of the risk owners and managers.

What:

- Requires the establishment and maintenance of a clear and explicit risk management framework, policy, and plan that define the objectives, scope, criteria, roles, responsibilities, and processes of the risk management activities within the organization, and that are aligned with the organizational context, culture, and objectives, and follow the international standards and best practices of risk management, such as ISO 31000 and COSO ERM.
- Requires the application and integration of the risk management framework, policy, and plan across the organization, covering its strategy, operations, finances, and compliance, and involving all its stakeholders, both internal and external, and ensuring their participation, communication, and consultation throughout the risk management process and outcomes.
- Requires the coordination and alignment of the risk management activities and outcomes with the other management activities and outcomes, such as planning, budgeting, performance management, quality management, project management, etc., by ensuring that the risk management process and outcomes are integrated and embedded into the decision making and operational processes of the organization, and that they support and contribute to the achievement of the organizational objectives and mission.

How:

Develop and document a risk management framework, policy, and plan that are based on the organizational context, culture, and objectives, and that follow the international standards and best practices of risk management, such as ISO 31000 and COSO ERM, and that include the following elements:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- The purpose, scope, and objectives of the risk management activities within the organization, and how they align with the organizational mission and vision.
- The risk management process and its components, such as risk identification, risk analysis, risk evaluation, risk treatment, risk monitoring, and risk review, and the methods, tools, and techniques that are used for each component.
- The risk criteria and indicators that are used to measure and evaluate the risks and their effects, such as likelihood, impact, severity, priority, etc., and how they are determined and applied.
- The roles and responsibilities of the risk owners and managers, and the other stakeholders, such as the board, the senior management, the staff, the customers, the suppliers, the regulators, etc., and how they are assigned and communicated.
- The communication and consultation mechanisms and channels that are used to inform and engage the stakeholders throughout the risk management process and outcomes, and the media and formats that are used to deliver and receive the messages and feedback.
- The monitoring and review mechanisms and methods that are used to track and evaluate the performance and effectiveness of the risk management process and outcomes, and the frequency and timing of the monitoring and review activities.
- The improvement and learning mechanisms and methods that are used to identify and implement the opportunities and actions for enhancing and developing the risk management process and outcomes, and the sources and inputs of the improvement and learning activities.
- Communicate and disseminate the risk management framework, policy, and plan to all the relevant stakeholders, and provide them with the necessary training, guidance, and support for implementing them, by using the following methods and techniques:
 - Use clear and concise language and terminology that are understandable and familiar to the stakeholders, and avoid jargon and acronyms that may cause confusion or misunderstanding.
 - Use visual and graphical aids, such as diagrams, charts, tables, etc., to illustrate and summarize the key points and concepts of the risk management framework, policy, and plan, and to highlight the main benefits and expectations of the risk management activities.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Use multiple and diverse media and formats, such as documents, presentations, videos, webinars, etc., to deliver and distribute the risk management framework, policy, and plan to the stakeholders, and to cater to their different preferences and needs.
- Use interactive and participatory methods, such as workshops, seminars, meetings, surveys, etc., to engage and involve the stakeholders in the development and implementation of the risk management framework, policy, and plan, and to solicit and incorporate their feedback and suggestions.
- Use incentives and rewards, such as recognition, appreciation, acknowledgment, etc., to motivate and encourage the stakeholders to adopt and apply the risk management framework, policy, and plan, and to acknowledge and celebrate their achievements and contributions.

Monitor and review the risk management framework, policy, and plan regularly and continuously, and update and improve them as needed, based on the changes and feedback from the environment and the stakeholders, by using the following methods and techniques:

- Use performance and effectiveness indicators and measures, such as key performance indicators (KPIs), key risk indicators (KRIs), key control indicators (KCIIs), etc., to track and evaluate the results and outcomes of the risk management activities, and to compare and benchmark them against the objectives and criteria of the risk management framework, policy, and plan.
- Use monitoring and review tools and techniques, such as dashboards, reports, audits, reviews, etc., to collect and analyze the data and information on the performance and effectiveness of the risk management activities, and to identify and report the strengths, weaknesses, opportunities, and threats (SWOT) of the risk management process and outcomes.
- Use improvement and learning tools and techniques, such as root cause analysis, gap analysis, action plans, lessons learned, etc., to identify and implement the actions and solutions for addressing and resolving the issues and problems of the risk management activities, and to capture and share the best practices and lessons learned from the risk management process and outcomes.

3.3.2 Customized

Risk management should be tailored and adapted to the specific needs, preferences, and expectations of the organization and its stakeholders, and reflect their unique context, culture, and objectives.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Why:

- Improves the relevance, suitability, and applicability of the risk management process and outcomes, by ensuring that they are designed and delivered according to the specific characteristics and features of the organization and its stakeholders, and their context, culture, and objectives, and that they address and meet their particular needs, preferences, and expectations.
- Increases the acceptance, adoption, and adaptation of the risk management process and outcomes by the organization and its stakeholders, by ensuring that they are perceived and valued as useful and beneficial, and that they are compatible and consistent with their existing practices and behaviors.
- Enhances the differentiation and competitiveness of the organization and its activities in the market, by ensuring that the risk management process and outcomes reflect and support the unique value proposition and competitive advantage of the organization and its activities, and that they enable and facilitate the innovation and adaptation of the organization and its activities.

What:

Requires the assessment and understanding of the context, culture, and objectives of the organization and its stakeholders, and their implications and influences on the risk management process and outcomes, by using the following methods and techniques:

- Use context analysis tools and techniques, such as PESTEL analysis, SWOT analysis, scenario analysis, etc., to identify and evaluate the external and internal factors and trends that affect the organization and its activities, and their opportunities and threats.
- Use culture analysis tools and techniques, such as organizational culture assessment instrument (OCAI), Hofstede's cultural dimensions, etc., to identify and evaluate the values, beliefs, norms, and behaviors that shape the organization and its activities, and their strengths and weaknesses.
- Use objective analysis tools and techniques, such as SMART criteria, balanced scorecard, etc., to identify and evaluate the mission, vision, goals, and objectives of the organization and its activities, and their relevance and alignment.

Requires the selection and modification of the risk management methods, tools, and techniques that are most appropriate and effective for the organization and its stakeholders, and their context, culture, and objectives, by using the following methods and techniques:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Use risk management methods, tools, and techniques selection criteria, such as suitability, feasibility, acceptability, etc., to compare and evaluate the different options and alternatives of the risk management methods, tools, and techniques, and to select the ones that best fit the organization and its stakeholders, and their context, culture, and objectives.
- Use risk management methods, tools, and techniques modification methods and techniques, such as customization, adaptation, integration, etc., to adjust and improve the selected risk management methods, tools, and techniques, and to make them more relevant and suitable for the organization and its stakeholders, and their context, culture, and objectives.

Requires the consideration and incorporation of the feedback and suggestions from the organization and its stakeholders, and their context, culture, and objectives, into the risk management process and outcomes, by using the following methods and techniques:

- Use feedback and suggestion collection methods and techniques, such as surveys, interviews, focus groups, etc., to solicit and obtain the opinions and ideas of the organization and its stakeholders, and their context, culture, and objectives, regarding the risk management process and outcomes, and to identify and understand their needs, preferences, and expectations.
- Use feedback and suggestion analysis methods and techniques, such as content analysis, thematic analysis, etc., to analyze and interpret the feedback and suggestions from the organization and its stakeholders, and their context, culture, and objectives, and to identify and prioritize the key issues and opportunities for the risk management process and outcomes.
- Use feedback and suggestion implementation methods and techniques, such as action plans, change management, etc., to implement and incorporate the feedback and suggestions from the organization and its stakeholders, and their context, culture, and objectives, into the risk management process and outcomes, and to communicate and monitor the changes and improvements.

3.3.3 Transparent and inclusive

Risk management should be open and honest, and involve and engage all the relevant stakeholders, both internal and external, and ensure their participation, communication, and consultation throughout the risk management process and outcomes.

Why:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Improves the quality, diversity, and completeness of the information and perspectives on the risks and their effects, by ensuring that the risk management process and outcomes are based on the most reliable and relevant data and information, and that they reflect and consider the different views and opinions of the stakeholders, and their knowledge and experience.
- Increases the buy-in, ownership, and accountability of the stakeholders for the risk management process and outcomes, by ensuring that the risk management process and outcomes are agreed and approved by the stakeholders, and that they are involved and engaged in the development and implementation of the risk management activities, and that they are responsible and accountable for the risk management results and outcomes.
- Builds and maintains the relationships and trust among the stakeholders, and enhances their satisfaction and confidence in the risk management process and outcomes, by ensuring that the risk management process and outcomes are communicated and consulted with the stakeholders, and that they are informed and updated on the risk management activities and outcomes, and that they are acknowledged and appreciated for their contributions and achievements.

What:

Requires the identification and analysis of the stakeholders, their roles, responsibilities, interests, and expectations regarding the risk management process and outcomes, by using the following methods and techniques:

- - Use stakeholder identification methods and techniques, such as stakeholder mapping, stakeholder matrix, etc., to identify and classify the stakeholders according to their power, influence, interest, and impact on the risk management process and outcomes, and to determine and prioritize the relevant and significant stakeholders.
- - Use stakeholder analysis methods and techniques, such as stakeholder profile, stakeholder needs assessment, etc., to analyze and understand the stakeholders' roles, responsibilities, interests, and expectations regarding the risk management process and outcomes, and to identify and address their needs, preferences, and concerns.

Requires the establishment and implementation of the effective and efficient communication and consultation mechanisms and channels with the stakeholders, by using the following methods and techniques:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Use communication and consultation planning methods and techniques, such as communication and consultation objectives, communication and consultation matrix, communication and consultation plan, etc., to define and describe the purpose, scope, and frequency of the communication and consultation with the stakeholders, and to determine and select the most suitable and convenient communication and consultation mechanisms and channels, such as media, formats, methods, etc.
- Use communication and consultation delivery methods and techniques, such as communication and consultation messages, communication and consultation feedback, communication and consultation evaluation, etc., to deliver and distribute the appropriate and timely messages and feedback to and from the stakeholders, and to evaluate and measure the effectiveness and efficiency of the communication and consultation with the stakeholders.

Requires the management and resolution of the potential conflicts, disagreements, or disputes among the stakeholders, by using the following methods and techniques:

- Use conflict identification methods and techniques, such as conflict sources, conflict symptoms, conflict triggers, etc., to identify and recognize the existence and nature of the conflicts, disagreements, or disputes among the stakeholders, and to understand their causes and consequences.
- Use conflict management and resolution methods and techniques, such as conflict styles, conflict strategies, conflict techniques, etc., to manage and resolve the conflicts, disagreements, or disputes among the stakeholders, and to find and implement the best possible solutions and compromises.

3.3.4 Informed by the best available information

Risk management should be based on the best available information, which includes factual, historical, scientific, statistical, and experiential data and information, as well as expert opinions, assumptions, and judgments. The information should be relevant, reliable, accurate, complete, consistent, and timely, and should be collected, analyzed, and communicated using appropriate methods and techniques.

Why:

- Improves the quality and validity of the risk identification, analysis, evaluation, and treatment, by ensuring that the risks and their effects are assessed and addressed using the most credible and comprehensive

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

information, and that the uncertainties and biases are reduced and accounted for.

- Increases the confidence and trust in the risk management process and outcomes, by ensuring that the risk management decisions and actions are justified and supported by the best available evidence, and that the stakeholders are informed and consulted about the sources and quality of the information.
- Enables the adaptation and improvement of the risk management process and outcomes, by ensuring that the risk management activities and outcomes are monitored and reviewed using the best available information, and that the new and emerging information is identified and incorporated into the risk management process and outcomes.

What:

Requires the identification and assessment of the information needs and sources for the risk management process and outcomes, by using the following methods and techniques:

- Use information needs assessment methods and techniques, such as information gap analysis, information criteria, information objectives, etc., to identify and define the information needs and requirements for the risk management process and outcomes, and to determine and prioritize the information gaps and issues.
- Use information sources assessment methods and techniques, such as information sources mapping, information sources evaluation, information sources selection, etc., to identify and evaluate the potential and existing information sources for the risk management process and outcomes, and to select and access the most suitable and available information sources.

Requires the collection and analysis of the best available information for the risk management process and outcomes, by using the following methods and techniques:

- Use information collection methods and techniques, such as information retrieval, information extraction, information synthesis, etc., to collect and obtain the best available information from the selected and accessed information sources, and to integrate and consolidate the information into a coherent and consistent format and structure.
- Use information analysis methods and techniques, such as information processing, information interpretation, information validation, etc., to

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

analyze and understand the best available information, and to verify and ensure its relevance, reliability, accuracy, completeness, consistency, and timeliness for the risk management process and outcomes.

Requires the communication and reporting of the best available information for the risk management process and outcomes, by using the following methods and techniques:

- Use information communication methods and techniques, such as information presentation, information visualization, information dissemination, etc., to communicate and share the best available information with the relevant and appropriate stakeholders, and to convey and explain the information in a clear and understandable manner and format.
- Use information reporting methods and techniques, such as information documentation, information summarization, information recommendation, etc., to report and provide the best available information for the risk management process and outcomes, and to highlight and emphasize the key findings and implications of the information.

3.3.5 Dynamic and responsive

Risk management should be dynamic and responsive, which means that it should be able to adapt and react to the changing internal and external environment, and to the evolving risks and opportunities. Risk management should also be proactive and anticipatory, which means that it should be able to identify and respond to the emerging and potential risks and opportunities, and to prevent or mitigate their negative impacts or enhance their positive impacts.

Why:

- Enhances the effectiveness and efficiency of the risk management process and outcomes, by ensuring that the risk management activities and outcomes are aligned and consistent with the current and future context and objectives, and that the risks and opportunities are managed in a timely and appropriate manner.
- Increases the resilience and agility of the organization, by ensuring that the organization can cope and recover from the adverse effects of the realized risks, and can exploit and benefit from the favorable effects of the realized opportunities.
- Enables the innovation and improvement of the organization, by ensuring that the organization can learn from the experience and feedback of the risk

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

management process and outcomes, and can create and seize new and better risks and opportunities.

What:

Requires the monitoring and review of the risk management process and outcomes, by using the following methods and techniques:

- Use risk monitoring methods and techniques, such as risk indicators, risk reporting, risk dashboards, etc., to monitor and track the performance and progress of the risk management process and outcomes, and to detect and measure the changes and trends of the risks and their effects.
- Use risk review methods and techniques, such as risk audits, risk evaluations, risk feedback, etc., to review and assess the effectiveness and efficiency of the risk management process and outcomes, and to identify and evaluate the strengths and weaknesses of the risk management activities and outcomes.
- Requires the update and improvement of the risk management process and outcomes, by using the following methods and techniques:
- Use risk update methods and techniques, such as risk reassessment, risk adjustment, risk revision, etc., to update and modify the risk management process and outcomes, and to incorporate and reflect the new and relevant information, knowledge, and experience.
- Use risk improvement methods and techniques, such as risk learning, risk innovation, risk optimization, etc., to improve and enhance the risk management process and outcomes, and to create and implement new and better risk management practices and solutions.

3.3.6 Considerate of human and cultural factors

Risk management should be considerate of human and cultural factors, which means that it should take into account and respect the beliefs, values, norms, attitudes, behaviors, perceptions, emotions, motivations, and expectations of the people and groups involved in or affected by the risk management process and outcomes. Risk management should also be inclusive and participatory, which means that it should involve and engage the relevant and diverse stakeholders in the risk management process and outcomes, and that it should consider and balance their interests, needs, and preferences.

Why:

- Improves the quality and validity of the risk management process and outcomes, by ensuring that the risks and their effects are assessed and

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

addressed from multiple and different perspectives and viewpoints, and that> the uncertainties and biases are reduced and accounted for.

- Increases the acceptance and support of the risk management process and outcomes, by ensuring that the risk management decisions and actions are fair and transparent, and that the stakeholders are informed and consulted about the risk management process and outcomes.
- Enhances the collaboration and communication of the risk management process and outcomes, by ensuring that the risk management activities and outcomes are shared and coordinated among the stakeholders, and that the stakeholders are encouraged and empowered to contribute and participate in the risk management process and outcomes.

What:

Requires the identification and analysis of the human and cultural factors for the risk management process and outcomes, by using the following methods and techniques:

- Use human and cultural factors identification methods and techniques, such as stakeholder analysis, stakeholder mapping, stakeholder identification, etc., to identify and define the human and cultural factors that influence or are influenced by the risk management process and outcomes, and to determine and prioritize the key and relevant human and cultural factors.
- Use human and cultural factors analysis methods and techniques, such as stakeholder profiling, stakeholder assessment, stakeholder evaluation, etc., to analyze and understand the human and cultural factors, and to assess and ensure their alignment and compatibility with the risk management process and outcomes.

Requires the consideration and integration of the human and cultural factors for the risk management process and outcomes, by using the following methods and techniques:

- Use human and cultural factors consideration methods and techniques, such as stakeholder involvement, stakeholder consultation, stakeholder participation, etc., to consider and incorporate the human and cultural factors into the risk management process and outcomes, and to involve and engage the stakeholders in the risk management activities and outcomes.
- Use human and cultural factors integration methods and techniques, such as stakeholder communication, stakeholder coordination, stakeholder collaboration, etc., to integrate and harmonize the human and cultural

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

factors with the risk management process and outcomes, and to communicate and coordinate the risk management activities and outcomes among the stakeholders.

3.3.7 Continually improving

Risk management should be continually improving, which means that it should be able to learn from the experience and feedback of the risk management process and outcomes, and to apply the lessons learned and best practices to improve and enhance the risk management process and outcomes. Risk management should also be able to benchmark and compare the risk management process and outcomes with the standards and expectations of the organization and the stakeholders, and to identify and implement the opportunities and actions for improvement and enhancement.

Why:

- Enhances the effectiveness and efficiency of the risk management process and outcomes, by ensuring that the risk management activities and outcomes are aligned and consistent with the goals and objectives of the organization and the stakeholders, and that the risks and opportunities are managed in the best possible manner.
- Increases the performance and competitiveness of the organization, by ensuring that the organization can achieve and exceed the desired and expected results and outcomes of the risk management process and outcomes, and that the organization can differentiate and excel from the others in the risk management process and outcomes.
- Enables the innovation and improvement of the organization, by ensuring that the organization can learn from the experience and feedback of the risk management process and outcomes, and that the organization can create and seize new and better risks and opportunities.

What:

Requires the evaluation and measurement of the risk management process and outcomes, by using the following methods and techniques:

- Use risk evaluation methods and techniques, such as risk performance indicators, risk performance measurement, risk performance evaluation, etc., to evaluate and measure the results and outcomes of the risk management process and outcomes, and to compare and benchmark them with the standards and expectations of the organization and the stakeholders.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Use risk feedback methods and techniques, such as risk feedback collection, risk feedback analysis, risk feedback utilization, etc., to collect and analyze the feedback and opinions of the organization and the stakeholders on the risk management process and outcomes, and to use and apply them for the improvement and enhancement of the risk management process and outcomes.
- Requires the improvement and enhancement of the risk management process and outcomes, by using the following methods and techniques:
- Use risk improvement methods and techniques, such as risk learning, risk innovation, risk optimization, etc., to improve and enhance the risk management process and outcomes, and to create and implement new and better risk management practices and solutions.
- Use risk action methods and techniques, such as risk action planning, risk action implementation, risk action monitoring, etc., to plan and implement the actions and initiatives for the improvement and enhancement of the risk management process and outcomes, and to monitor and track their progress and impact.

3.3.8 Creating and protecting value

Risk management should be creating and protecting value, which means that it should contribute and support the achievement and realization of the goals and objectives of the organization and the stakeholders, and that it should enhance and preserve the benefits and assets of the organization and the stakeholders. Risk management should also be able to balance and optimize the costs and benefits of the risk management process and outcomes, and to ensure that the resources and efforts invested in the risk management process and outcomes are justified and proportionate to the value created and protected.

Why:

- Improves the quality and validity of the risk management process and outcomes, by ensuring that the risks and their effects are assessed and addressed in relation to the goals and objectives of the organization and the stakeholders, and that the uncertainties and biases are reduced and accounted for.
- Increases the satisfaction and loyalty of the organization and the stakeholders, by ensuring that the risk management decisions and actions are aligned and consistent with the interests, needs, and preferences of the

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

organization and the stakeholders, and that the stakeholders are informed and consulted about the risk management process and outcomes.

- Enhances the reputation and credibility of the organization, by ensuring that the organization can demonstrate and communicate the value and benefits of the risk management process and outcomes, and that the organization can meet and exceed the expectations and standards of the organization and the stakeholders.

What:

Requires the identification and assessment of the value and benefits of the risk management process and outcomes, by using the following methods and techniques:

- Use value and benefits identification methods and techniques, such as value proposition, value mapping, value identification, etc., to identify and define the value and benefits that the risk management process and outcomes can deliver and provide to the organization and the stakeholders, and to determine and prioritize the key and relevant value and benefits.
- Use value and benefits assessment methods and techniques, such as value analysis, value evaluation, value measurement, etc., to assess and estimate the value and benefits of the risk management process and outcomes, and to verify and ensure their alignment and compatibility with the goals and objectives of the organization and the stakeholders.

Requires the creation and protection of the value and benefits of the risk management process and outcomes, by using the following methods and techniques:

- Use value and benefits creation methods and techniques, such as value generation, value enhancement, value realization, etc., to create and increase the value and benefits of the risk management process and outcomes, and to implement and achieve them for the organization and the stakeholders.
- Use value and benefits protection methods and techniques, such as value preservation, value safeguarding, value recovery, etc., to protect and maintain the value and benefits of the risk management process and outcomes, and to prevent and mitigate the loss or damage of the value and benefits for the organization and the stakeholders.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

4. DEVELOPING YOUR RISK MANAGEMENT FRAMEWORK

A risk management framework is a comprehensive and systematic approach to managing the risks that an organization faces in achieving its objectives and creating value for its stakeholders. A risk management framework provides the foundation and direction for the organization's risk management activities, by establishing the principles, processes, tools, and practices that enable and support the identification, assessment, treatment, monitoring, and reporting of risks throughout the organization. A risk management framework should be aligned and consistent with the organization's vision, mission, values, culture, strategy, and objectives, and should reflect the organization's risk appetite and tolerance. A risk management framework should also be tailored and adapted to the specific context, characteristics, and needs of the organization and its stakeholders, and should be responsive and flexible to the changes and uncertainties in the internal and external environment.

4.1 Constructing Your Own Risk Management Framework

To construct your own risk management framework, you should follow these steps:

- Define the scope, objectives, and outcomes of your risk management framework. You should specify the purpose, scope, and boundaries of your risk management framework, and define the expected outcomes and benefits of your risk management framework for the organization and its stakeholders. For example, you should clarify what types of risks your framework will cover, such as strategic, operational, financial, compliance, reputational, etc., and what level of detail and granularity your framework will provide, such as enterprise-wide, divisional, departmental, project, etc. You should also identify the key objectives and benefits of your framework, such as enhancing decision-making, improving performance, increasing resilience, protecting reputation, complying with regulations, etc.
- Identify and analyze the internal and external factors that influence your risk management framework. You should identify and analyze the internal factors, such as the organization's structure, culture, resources, capabilities, processes, policies, etc., and the external factors, such as the legal, regulatory, social, economic, environmental, technological, etc., that affect your risk management framework, and assess their impact and implications for your risk management framework. For example, you should consider how the organization's governance, leadership, values, culture, and ethics influence

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

the risk management framework, and how the risk management framework supports and reinforces them. You should also consider how the organization's stakeholders, such as customers, suppliers, competitors, regulators, media, etc., influence and are influenced by the risk management framework, and how the risk management framework engages and communicates with them.

- Develop and design your risk management framework components. You should develop and design the components of your risk management framework, such as the risk management principles, risk management policy, risk management roles and responsibilities, risk management process, risk management tools and techniques, risk management documentation and reporting, risk management communication and consultation, risk management monitoring and review, etc., and ensure their alignment and integration with each other and with the organization's context and objectives. For example, you should establish the risk management principles that guide and govern the risk management framework, such as accountability, transparency, inclusiveness, proportionality, etc. You should also formulate the risk management policy that defines and communicates the risk management framework, such as the scope, objectives, outcomes, roles, responsibilities, process, tools, etc. of the risk management framework. You should also assign the risk management roles and responsibilities to the relevant individuals and groups within the organization, such as the board, senior management, risk owners, risk managers, risk coordinators, risk advisors, etc., and define their authority, accountability, and reporting lines. You should also design the risk management process that describes and implements the risk management framework, such as the steps and activities involved in identifying, assessing, treating, monitoring, and reporting risks, and the tools and techniques used to support and facilitate them, such as risk registers, risk matrices, risk heat maps, risk dashboards, risk reports, etc. You should also develop the risk management documentation and reporting that records and communicates the risk management framework, such as the risk management plan, risk management strategy, risk management manual, risk management procedures, risk management guidelines, risk management standards, risk management templates, etc. You should also establish the risk management communication and consultation that informs and involves the organization and its stakeholders in the risk management framework, such as the methods and channels used to communicate and consult with the internal and external stakeholders on the risk management framework, such

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

as meetings, workshops, surveys, newsletters, websites, etc. You should also implement the risk management monitoring and review that evaluates and improves the risk management framework, such as the indicators and measures used to monitor and review the performance and outcomes of the risk management framework, such as key risk indicators, risk audits, risk reviews, risk surveys, risk feedback, etc.

- Implement and embed your risk management framework. You should implement and embed your risk management framework throughout the organization, by providing the necessary resources, training, guidance, support, incentives, and oversight for the effective and efficient execution and application of your risk management framework, and by ensuring the awareness, involvement, and commitment of the organization and its stakeholders to your risk management framework. For example, you should allocate the adequate and appropriate resources, such as human, financial, technical, etc., to support the implementation and operation of your risk management framework. You should also provide the relevant and timely training, guidance, support, and coaching to the individuals and groups involved in the risk management framework, such as the risk owners, risk managers, risk coordinators, risk advisors, etc., to enhance their knowledge, skills, and competencies in risk management. You should also create and maintain the positive and conducive incentives and culture for the risk management framework, such as the recognition, reward, and feedback mechanisms that encourage and motivate the desired risk management behaviors and outcomes. You should also ensure the effective and efficient oversight and assurance of the risk management framework, such as the independent and objective review and verification of the risk management framework by the internal and external auditors, regulators, consultants, etc.
- Evaluate and improve your risk management framework. You should evaluate and improve your risk management framework, by measuring and assessing the performance and outcomes of your risk management framework, by collecting and analyzing the feedback and suggestions of the organization and its stakeholders on your risk management framework, and by identifying and implementing the opportunities and actions for the improvement and enhancement of your risk management framework. For example, you should use the indicators and measures that you have established in the risk management monitoring and review component to evaluate the effectiveness and efficiency of your risk management framework, such as the extent to which your risk management framework has achieved

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

its objectives and outcomes, the extent to which your risk management framework has added value to the organization and its stakeholders, the extent to which your risk management framework has complied with the relevant standards and regulations, etc. You should also solicit and collect the feedback and suggestions from the organization and its stakeholders on your risk management framework, such as the strengths, weaknesses, opportunities, and threats of your risk management framework, the satisfaction, expectations, and preferences of the organization and its stakeholders on your risk management framework, the challenges, issues, and problems encountered in the implementation and operation of your risk management framework, etc. You should also identify and implement the opportunities and actions for the improvement and enhancement of your risk management framework, such as the best practices, lessons learned, and innovations that can be adopted and adapted to your risk management framework, the gaps, deficiencies, and risks that can be addressed and mitigated in your risk management framework, the changes and uncertainties that can be anticipated and responded to in your risk management framework, etc.

4.2 Becoming a Change-Driven Leader

A change-driven leader is someone who initiates, leads, and sustains positive and meaningful change in their organization, by engaging and influencing the organization and its stakeholders to adopt and support the change. A change-driven leader is not only a visionary and a strategist, but also a facilitator and a catalyst, who can inspire and motivate others to share and pursue the vision of the change, who can empower and enable others to participate and contribute to the change, who can manage and cope with resistance to the change, and who can monitor and evaluate the change.

To become a change-driven leader, you should develop and demonstrate the following competencies and behaviors:

- Lead by example. You should model and promote the desired change in your organization, by aligning your actions and decisions with the vision, mission, values, and objectives of the change initiative, and by communicating and demonstrating the benefits and value of the change to the organization and its stakeholders. For example, you should:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Show your commitment and enthusiasm for the change, by participating and engaging in the change activities and events, by sharing your success stories and lessons learned from the change, and by celebrating and rewarding the achievements and contributions of the change agents and champions.
- Align your behavior and performance with the expectations and standards of the change, by adhering to the policies and procedures of the change, by delivering the results and outcomes of the change, and by providing and receiving feedback on the change.
- Be a role model and a mentor for the organization and its stakeholders, by demonstrating the skills and competencies required for the change, by coaching and supporting others to develop and improve their capabilities for the change, and by recognizing and appreciating the diversity and potential of the organization and its stakeholders.

Inspire and motivate others. You should inspire and motivate others to embrace and adopt the change in your organization, by creating and communicating a compelling and shared vision of the future state, by articulating and addressing the purpose and rationale of the change, and by appealing and connecting to the emotions and values of the organization and its stakeholders.

For example, you should:

- Use storytelling, metaphors, analogies, and symbols to convey and illustrate the vision of the change, by highlighting the opportunities, challenges, and implications of the change, by emphasizing the urgency and importance of the change, and by expressing and acknowledging the feelings and concerns of the organization and its stakeholders.
- Build and maintain trust and credibility with the organization and its stakeholders, by being honest and transparent about the change, by sharing and disclosing relevant and accurate information about the change, and by listening and responding to the feedback and questions of the organization and its stakeholders.
- Encourage and empower the organization and its stakeholders to take ownership and accountability for the change, by involving and consulting them in the decision-making and problem-solving processes of the change, by providing and facilitating the resources, training, guidance, support, and feedback for the change, and by recognizing and rewarding the efforts and achievements of the organization and its stakeholders.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Empower and enable others. You should empower and enable others to participate and contribute to the change in your organization, by delegating and distributing the authority and responsibility for the change, by providing and facilitating the resources, training, guidance, support, and feedback for the change, and by encouraging and fostering the creativity, innovation, collaboration, and learning for the change.

For example, you should:

- Involve and consult the organization and its stakeholders in the planning, design, implementation, and evaluation of the change, by soliciting and incorporating their input and feedback, by providing them with the information and tools they need to perform and succeed in the change, and by creating and maintaining a positive and conducive environment and culture for the change.
- Delegate and distribute the authority and responsibility for the change, by defining and communicating the roles and responsibilities of the organization and its stakeholders, by setting and agreeing on the goals and objectives of the change, and by monitoring and reviewing the progress and performance of the change.
- Provide and facilitate the resources, training, guidance, support, and feedback for the change, by identifying and securing the necessary and sufficient resources for the change, by designing and delivering the appropriate and relevant training and development programs for the change, by offering and providing the timely and constructive guidance and support for the change, and by soliciting and giving the regular and useful feedback on the change.
- Encourage and foster the creativity, innovation, collaboration, and learning for the change, by creating and promoting a culture of experimentation and exploration for the change, by supporting and rewarding the generation and implementation of new and better ideas and solutions for the change, by facilitating and enhancing the communication and cooperation among the organization and its stakeholders, and by capturing and sharing the best practices and lessons learned from the change.

Manage and cope with resistance. You should manage and cope with resistance to the change in your organization, by identifying and analyzing the sources, causes, and levels of resistance, by developing and implementing the strategies and actions to overcome and mitigate resistance, and by monitoring and reviewing the effectiveness and outcomes of your interventions.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

For example, you should:

- Anticipate and recognize the signs and symptoms of resistance, such as denial, anger, confusion, anxiety, etc., by conducting and using the stakeholder analysis and the change readiness assessment, by monitoring and observing the behavior and performance of the organization and its stakeholders, and by listening and responding to the feedback and complaints of the organization and its stakeholders.
- Identify and analyze the sources, causes, and levels of resistance, such as the lack of awareness, understanding, trust, or involvement in the change, the fear of loss, uncertainty, or failure in the change, the preference for the status quo, the inertia, or the complacency in the change, etc., by using the tools and techniques such as the force field analysis, the root cause analysis, the SWOT analysis, etc., by collecting and examining the data and evidence of the resistance, and by engaging and consulting the organization and its stakeholders to understand and empathize with their perspectives and needs.
- Develop and implement the strategies and actions to overcome and mitigate resistance, such as the communication, education, participation, negotiation, facilitation, or coercion strategies, by selecting and applying the appropriate and effective strategies and actions for the different types and levels of resistance, by involving and collaborating with the influencers and allies that can help you reduce and eliminate resistance, and by addressing and resolving the issues and problems that trigger resistance.
- Monitor and review the effectiveness and outcomes of your interventions, by measuring and assessing the impact and results of your strategies and actions, by collecting and analyzing the feedback and data on the resistance, and by adjusting and improving your strategies and actions as needed.

Monitor and evaluate the change. You should monitor and evaluate the change in your organization, by measuring and assessing the progress and performance of the change, by collecting and analyzing the data and evidence of the change, and by reporting and communicating the results and outcomes of the change.

For example, you should:

- Use the indicators and measures that you have established in the change plan and strategy to evaluate the effectiveness and efficiency of the change, such as the extent to which the change has achieved its objectives and outcomes, the extent to which the change has added value to the

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

organization and its stakeholders, the extent to which the change has complied with the relevant standards and regulations, etc.

- Collect and analyze the data and evidence of the change, by using the tools and methods such as the surveys, interviews, focus groups, observations, audits, etc., by ensuring the validity, reliability, and accuracy of the data and evidence, and by interpreting and synthesizing the data and evidence to draw conclusions and recommendations.
- Report and communicate the results and outcomes of the change, by using the formats and channels such as the reports, presentations, dashboards, newsletters, etc., by tailoring and adapting the content and style of the report and communication to the needs and preferences of the audience, and by highlighting and emphasizing the achievements and benefits of the change, as well as the challenges and opportunities for improvement.
- Identify and implement the opportunities and actions for the improvement and enhancement of the change, such as the best practices, lessons learned, and innovations that can be adopted and adapted to the change, the gaps, deficiencies, and risks that can be addressed and mitigated in the change, the changes and uncertainties that can be anticipated and responded to in the change, etc.

4.3 Guidelines for Building the Framework

The framework is the set of principles, policies, processes, and practices that guide and support the organization in managing risks. The framework should be aligned with the organization's vision, mission, values, objectives, and strategy, as well as the external and internal context of the organization. The framework should also be adaptable and flexible to the changing needs and circumstances of the organization and its stakeholders.

The following are some guidelines for building the framework:

Establish the risk management policy. The policy is the statement of the organization's commitment, direction, and approach to managing risks.

The policy should:

- Define the scope, objectives, and responsibilities of risk management, as well as the roles and accountabilities of the key stakeholders involved in risk management.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Specify the criteria and standards for risk assessment, treatment, monitoring, and reporting, such as the risk appetite, tolerance, and thresholds, the risk matrix, the risk register, the risk report, etc.
- Provide the resources and support for risk management activities, such as the budget, staff, training, tools, etc.
- Establish the governance and oversight mechanisms for risk management, such as the risk committee, the risk owner, the risk champion, the risk auditor, etc.
- Communicate and consult with the organization and its stakeholders on the policy, and review and update the policy periodically.

Define the risk management process. The process is the systematic and structured way of identifying, analyzing, evaluating, treating, monitoring, and reviewing risks.

The process should:

- Follow the steps and stages of the international standard ISO 31000:2018, which provides a generic and widely applicable framework for risk management.
- Be tailored and customized to the specific needs and context of the organization and its stakeholders, such as the industry, sector, size, nature, culture, etc. of the organization.
- Be documented and communicated to the organization and its stakeholders, and be integrated into the organizational culture and practices.
- Be reviewed and improved continuously, based on the feedback and lessons learned from the risk management activities and outcomes.

Integrate the risk management into the organizational culture and practices. The integration is the embedding and mainstreaming of risk management into the daily operations and decision-making of the organization.

The integration should:

- Ensure that risk management is consistent and coherent across the organization, as well as aligned and coordinated with other management functions and systems, such as strategic planning, performance management, quality management, compliance management, etc.
- Promote and encourage the awareness, understanding, and engagement of the organization and its stakeholders in risk management, by providing the training, education, communication, and incentives for risk management.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Foster and support a positive and proactive risk culture, by creating a shared vision, values, and beliefs on risk management, by empowering and enabling the staff and stakeholders to take ownership and responsibility for risk management, and by rewarding and recognizing the good risk management practices and behaviors.
- Communicate and consult with the organization and its stakeholders. The communication and consultation are the exchange and sharing of information and views on risk management among the organization and its stakeholders. The communication and consultation should:
- Be timely, transparent, and effective, using the appropriate methods and channels for the different audiences and purposes, such as the meetings, workshops, surveys, newsletters, websites, etc.
 - Enable and facilitate the participation and contribution of the organization and its stakeholders in risk management activities, such as the risk identification, analysis, evaluation, treatment, monitoring, and review.
 - Provide and receive the feedback and learning from risk management outcomes, such as the risk reports, the risk indicators, the risk incidents, the risk audits, etc.

4.4 Considering Internal and External Context

The context is the environment and situation in which the organization operates and interacts with its stakeholders. The context can be divided into the external and internal context, which influence and affect the organization and its risk management. The external context includes the factors and conditions that are outside the control and influence of the organization, such as the political, economic, social, technological, legal, and environmental aspects. The internal context includes the factors and conditions that are within the control and influence of the organization, such as the organizational structure, culture, values, objectives, strategy, resources, capabilities, processes, and practices.

The following are some steps for considering the internal and external context:

Identify and analyze the relevant factors and conditions of the external and internal context, using the tools and techniques such as the PESTLE analysis, the SWOT analysis, the stakeholder analysis, etc.

The identification and analysis should:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Consider the current and future state of the context, as well as the trends, changes, and uncertainties that may affect the context.
- Identify the opportunities and threats, strengths and weaknesses, needs and expectations, and risks and opportunities that arise from the context, for the organization and its risk management.
- Prioritize and categorize the factors and conditions of the context, based on their relevance, importance, and impact on the organization and its risk management.

Evaluate and prioritize the impact and significance of the factors and conditions of the external and internal context on the organization and its risk management, using the criteria and methods such as the likelihood, consequence, severity, urgency, importance, etc.

The evaluation and prioritization should:

- Help the organization to focus on the most relevant and critical issues and challenges that affect the organization and its risk management, such as the regulatory changes, the market competition, the customer demand, the staff turnover, etc.
- Help the organization to identify and pursue the most promising and beneficial opportunities and solutions that enhance the organization and its risk management, such as the innovation, the collaboration, the diversification, the optimization, etc.
- Help the organization to align and balance its risk appetite and tolerance with its objectives and outcomes, as well as with the expectations and interests of its stakeholders.

Align and adapt the organization and its risk management to the external and internal context, by developing and implementing the strategies and actions that address and respond to the factors and conditions of the context, as well as the issues and challenges, and the opportunities and solutions that emerge from the context.

The alignment and adaptation should:

- Enable the organization and its risk management to cope with and capitalize on the changes and uncertainties in the context, by being agile, resilient, and flexible.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Enable the organization and its risk management to achieve and sustain the objectives and outcomes of the organization and its risk management, by being effective, efficient, and reliable.
- Enable the organization and its risk management to create and deliver value for the organization and its stakeholders, by being relevant, competitive, and sustainable.

4.5 Resource Allocation for Risk Management

The resource allocation is the planning and distribution of the resources that are required and available for risk management activities. The resources include the human, financial, physical, technological, informational, and other assets and capabilities that support and enable risk management. The resource allocation should be based on the needs and priorities of risk management, as well as the constraints and limitations of the organization and its stakeholders.

The following are some principles and practices for resource allocation for risk management:

Assess and estimate the resource requirements and availability for risk management, by identifying and quantifying the resources that are needed and available for each risk management activity, such as risk identification, analysis, evaluation, treatment, monitoring, and review. The assessment and estimation should:

- Consider the scope, scale, complexity, and duration of the risk management activities, as well as the quality and reliability of the resources.
- Consider the interdependencies and trade-offs among the risk management activities and resources, as well as the potential synergies and efficiencies that can be achieved by sharing and pooling the resources.
- Consider the risks and uncertainties associated with the resources, such as the availability, adequacy, suitability, and cost of the resources, as well as the impact of the resources on the risk management outcomes.

Allocate and optimize the resources for risk management, by assigning and distributing the resources to the risk management activities, based on the criteria and methods such as the cost-benefit analysis, the priority ranking, the resource leveling, etc.

The allocation and optimization should:

- Ensure that the resources are used efficiently and effectively for risk management, by minimizing the waste, redundancy, and duplication of the

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

resources, and by maximizing the utilization, performance, and value of the resources.

- Ensure that the resources are balanced and harmonized with the other organizational needs and demands, by avoiding the overallocation or underallocation of the resources, and by aligning the resources with the organizational objectives and strategy.
- Ensure that the resources are flexible and adaptable to the changing needs and circumstances of risk management, by allowing the adjustment, reallocation, and redeployment of the resources as needed.

Monitor and control the resources for risk management, by tracking and measuring the utilization and performance of the resources, by collecting and analyzing the data and feedback on the resources, and by adjusting and improving the resource allocation and optimization as needed.

The monitoring and control should:

- Ensure that the resources are aligned and consistent with the risk management objectives and outcomes, by comparing the actual and expected results of the resources, and by identifying and addressing the gaps and deviations of the resources.
- Ensure that the resources are compliant and accountable with the organizational policies and standards, by verifying and validating the quality and reliability of the resources, and by reporting and documenting the resource utilization and performance.
- Ensure that the resources are improved and enhanced continuously, by identifying and implementing the best practices and lessons learned from the resource utilization and performance, and by seeking and applying the feedback and suggestions from the organization and its stakeholders.

4.6 Implementation of the Framework

The implementation of the framework is the execution and application of the framework in the organization and its risk management activities. The implementation of the framework should be planned, coordinated, and managed systematically and effectively, to ensure the successful and sustainable adoption and integration of the framework in the organization and its risk management.

The following are some steps and considerations for the implementation of the framework:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Develop and communicate the implementation plan. The implementation plan is the document that outlines the objectives, scope, approach, and schedule of the implementation of the framework, as well as the roles, responsibilities, and accountabilities of the stakeholders involved in the implementation.

The implementation plan should:

- Be based on the risk management policy and process, as well as the external and internal context of the organization and its risk management.
- Be realistic, achievable, and measurable, taking into account the resources, capabilities, and constraints of the organization and its stakeholders.
- Be communicated and consulted with the organization and its stakeholders, to ensure the understanding, acceptance, and support of the implementation of the framework.

Execute and monitor the implementation activities. The implementation activities are the actions and tasks that are performed to implement the framework in the organization and its risk management activities, such as the training, education, communication, awareness, engagement, etc. of the organization and its stakeholders on the framework, as well as the application, integration, and alignment of the framework with the organizational culture and practices.

The execution and monitoring of the implementation activities should:

- Follow the implementation plan, as well as the risk management policy and process, and adhere to the organizational policies and standards.
- Use the appropriate methods, tools, and techniques for the implementation activities, such as the change management, project management, etc.
- Track and measure the progress and performance of the implementation activities, by collecting and analyzing the data and feedback on the implementation activities, and by identifying and addressing the issues and challenges, and the opportunities and improvements of the implementation activities.

Evaluate and review the implementation outcomes. The implementation outcomes are the results and impacts of the implementation of the framework on the organization and its risk management, such as the changes, benefits, and value that are achieved and delivered by the implementation of the framework.

The evaluation and review of the implementation outcomes should:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- Compare the actual and expected outcomes of the implementation of the framework, and assess the effectiveness, efficiency, and reliability of the implementation of the framework.
- Identify and celebrate the successes and achievements of the implementation of the framework, and recognize and reward the contributions and efforts of the stakeholders involved in the implementation of the framework.
- Identify and learn from the failures and shortcomings of the implementation of the framework, and implement the corrective and preventive actions and improvements for the implementation of the framework.

4.7 Evaluating the Effectiveness of Your Framework

The evaluation of the effectiveness of the framework is the process of assessing and measuring how well the framework meets the objectives and expectations of the organization and its stakeholders, and how well the framework supports and enables the organization and its risk management. The evaluation of the effectiveness of the framework should be conducted periodically and systematically, to ensure the continuous improvement and enhancement of the framework and the risk management. The following are some steps and considerations for evaluating the effectiveness of the framework:

Define and communicate the evaluation objectives and criteria.

The evaluation objectives and criteria are the purpose and standards of the evaluation of the effectiveness of the framework, such as the scope, focus, and indicators of the evaluation, as well as the methods and sources of the evaluation.

The evaluation objectives and criteria should:

- Be based on the risk management policy and process, as well as the external and internal context of the organization and its risk management.
- Be relevant, meaningful, and measurable, reflecting the needs and expectations of the organization and its stakeholders.
- Be communicated and consulted with the organization and its stakeholders, to ensure the understanding, acceptance, and involvement of the evaluation of the effectiveness of the framework.

Collect and analyze the evaluation data and feedback. The evaluation data and feedback are the information and views that are gathered and processed to evaluate the effectiveness of the framework, such as the risk management outcomes, performance, and value, as well as the stakeholder satisfaction and perception on the framework and the risk management.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

The collection and analysis of the evaluation data and feedback should:

- Follow the evaluation objectives and criteria, as well as the organizational policies and standards.
- Use the appropriate methods, tools, and techniques for the collection and analysis of the evaluation data and feedback, such as the surveys, interviews, focus groups, observations, audits, etc.
- Ensure the validity, reliability, and accuracy of the evaluation data and feedback, by verifying and validating the sources, methods, and results of the evaluation data and feedback.

Report and review the evaluation findings and recommendations. The evaluation findings and recommendations are the conclusions and suggestions that are derived and proposed from the evaluation of the effectiveness of the framework, such as the strengths and weaknesses, opportunities and threats, and gaps and improvements of the framework and the risk management.

The reporting and reviewing of the evaluation findings and recommendations should:

- Be clear, concise, and comprehensive, covering the key aspects and issues of the evaluation of the effectiveness of the framework.
- Be timely, transparent, and effective, using the appropriate methods and channels for the reporting and reviewing of the evaluation findings and recommendations, such as the reports, presentations, meetings, workshops, etc.
- Enable and facilitate the decision-making and action-taking on the evaluation findings and recommendations, by providing the evidence, rationale, and implications of the evaluation findings and recommendations, and by involving and engaging the organization and its stakeholders in the reporting and reviewing of the evaluation findings and recommendations.

5. THE RISK MANAGEMENT PROCESS

The risk management process is the systematic application of the risk management principles, framework, and methods to identify, analyze, evaluate, treat, monitor, and review the risks that affect the organization and its objectives. The risk management process aims to provide a consistent, comprehensive, and effective approach to managing the uncertainties and opportunities that the organization faces. The risk management process can be applied at different levels

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

and scopes within the organization, such as the strategic, operational, project, or product level, and can cover the whole organization, a specific function, process, activity, or asset.

Understanding Risk Management's Three Steps

The risk management process consists of three main steps: risk assessment, risk treatment, and risk monitoring and review. These steps are interrelated and iterative, meaning that they should be performed in a continuous cycle, and that the outcomes and outputs of one step should inform and influence the inputs and actions of another step.

The following is a brief overview of each step:

- Risk assessment is the process of identifying, analyzing, and evaluating the risks that the organization faces or may face in relation to its objectives. Risk assessment provides the basis for risk treatment, by providing information on the sources, causes, consequences, likelihood, and impact of the risks, as well as their level and priority.
- Risk treatment is the process of selecting and implementing the appropriate measures to modify the risks that the organization faces or may face in relation to its objectives. Risk treatment aims to reduce the negative effects and enhance the positive effects of the risks, by avoiding, transferring, mitigating, or accepting the risks, or by exploiting, sharing, enhancing, or retaining the opportunities.
- Risk monitoring and review is the process of tracking and measuring the performance and effectiveness of the risk management process and the risk treatment measures, and of identifying and responding to the changes and developments in the risk context and profile. Risk monitoring and review aims to ensure that the risk management process and the risk treatment measures are aligned with the organizational objectives and expectations, and that they are updated and improved as needed.

Step 1: Contextualizing risk management

The first step of the risk management process is to establish the context for risk management, which means to define and understand the internal and external environment and factors that influence the risk management process and the risk profile of the organization. Establishing the context for risk management helps to ensure that the risk management process is relevant, appropriate, and effective for the organization and its objectives.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Establishing the context for risk management involves the following activities:

- Define the objectives and scope of the risk management process. This means to specify the purpose, outcomes, and boundaries of the risk management process, such as the level, area, function, process, activity, or asset that the risk management process applies to, the stakeholders that are involved or affected by the risk management process, and the resources and constraints that are available or required for the risk management process.
- Define the risk criteria and appetite. This means to specify the standards and measures that are used to assess and evaluate the risks, such as the likelihood and impact scales, the risk matrix, the risk thresholds, and the risk tolerance. The risk criteria and appetite should reflect the organizational values, culture, and expectations, as well as the legal, regulatory, and contractual obligations and requirements.
- Identify and analyze the risk context. This means to identify and understand the internal and external factors and influences that affect the risk management process and the risk profile of the organization, such as the organizational structure, culture, strategy, objectives, policies, processes, resources, capabilities, stakeholders, relationships, opportunities, threats, strengths, weaknesses, etc. The identification and analysis of the risk context should involve the collection and evaluation of relevant information and data, as well as the consultation and communication with the relevant stakeholders.

Defining Methods for Measuring Risk Criteria

The risk criteria are the standards and measures that are used to assess and evaluate the risks, such as the likelihood and impact scales, the risk matrix, the risk thresholds, and the risk tolerance. The risk criteria should be defined and documented before the risk assessment step, to ensure that the risks are assessed and evaluated in a consistent, objective, and transparent manner. **The following are some methods and considerations for defining the risk criteria:**

- **Likelihood and impact scales.** These are the scales that are used to measure and express the probability and consequence of the risks, respectively. The likelihood and impact scales should be defined using qualitative or quantitative descriptors, such as very low, low, medium, high, very high, or rare, unlikely, possible, likely, almost certain, or negligible, minor, moderate, major, catastrophic, etc. The likelihood and impact scales

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

should also be calibrated and aligned with the organizational context and objectives, as well as the type and nature of the risks. For example, the likelihood and impact scales for financial risks may differ from those for operational risks, or the likelihood and impact scales for strategic risks may differ from those for project risks.

- **Risk matrix.** This is the matrix that is used to combine and map the likelihood and impact scales, and to assign a risk level and priority to each risk. The risk matrix should be defined using a suitable format and dimension, such as a 3x3, 4x4, or 5x5 matrix, depending on the complexity and diversity of the risks. The risk matrix should also be color-coded and labeled to indicate the different risk levels and priorities, such as low, medium, high, or extreme, or green, yellow, orange, or red, etc. The risk matrix should also be validated and tested to ensure that it reflects the organizational risk criteria and appetite, and that it does not create any inconsistencies or ambiguities in the risk assessment and evaluation.
- **Risk thresholds.** These are the limits or boundaries that are used to determine the acceptability and tolerability of the risks, and to trigger the risk treatment actions and decisions. The risk thresholds should be defined using the risk matrix, by specifying the cut-off points or ranges for each risk level and priority, such as low risks are acceptable, medium risks are tolerable, high risks are intolerable, or > extreme risks are unacceptable, etc. The risk thresholds should also be aligned with the organizational risk criteria and appetite, and should be communicated and consulted with the relevant stakeholders, to ensure the understanding, agreement, and involvement in the risk treatment actions and decisions.
- **Risk tolerance.** This is the amount and type of risk that the organization is willing and able to bear or take, in pursuit of its objectives. The risk tolerance should be defined using the risk criteria and thresholds, by specifying the maximum and minimum levels and ranges of risk that the organization can accept or reject, for each objective, function, process, activity, or asset. The risk tolerance should also reflect the organizational values, culture, and expectations, as well as the legal, regulatory, and contractual obligations and requirements. The risk tolerance should also be reviewed and revised periodically, to ensure that it remains relevant and appropriate for the changing risk context and profile.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Step 2: Risk Assessment

The second step of the risk management process is to assess the risks that the organization faces or may face in relation to its objectives. Risk assessment is the process of identifying, analyzing, and evaluating the risks, by providing information on the sources, causes, consequences, likelihood, and impact of the risks, as well as their level and priority. Risk assessment provides the basis for risk treatment, by helping the organization to understand and prioritize the risks, and to select and implement the appropriate risk treatment measures.

Risk assessment involves the following activities:

- Identify the risks. This means to identify and describe the events, situations, or circumstances that may affect the achievement of the organizational objectives, positively or negatively. The identification of the risks should be comprehensive and systematic, covering all the relevant sources, categories, and types of risks, such as strategic, operational, financial, reputational, compliance, environmental, social, etc. The identification of the risks should also involve the collection and review of relevant information and data, as well as the consultation and communication with the relevant stakeholders, using various methods, tools, and techniques, such as brainstorming, interviews, surveys, checklists, SWOT analysis, PESTLE analysis, etc.
- Analyze the risks. This means to analyze and estimate the likelihood and impact of the risks, by determining the probability and consequence of the risks, respectively. The analysis of the risks should be consistent and objective, using the predefined risk criteria and scales, such as the likelihood and impact scales and the risk matrix. The analysis of the risks should also consider the factors and influences that affect the likelihood and impact of the risks, such as the causes, drivers, triggers, controls, mitigators, enablers, etc. The analysis of the risks should also involve the use of various methods, tools, and techniques, such as scenario analysis, fault tree analysis, event tree analysis, bowtie analysis, Monte Carlo simulation, etc.
- Evaluate the risks. This means to evaluate and prioritize the risks, by comparing the likelihood and impact of the risks with the predefined risk thresholds and tolerance, and by assigning a risk level and priority to each risk. The evaluation of the risks should be transparent and effective, using the predefined risk matrix and criteria, such as the risk levels and priorities and the risk thresholds and tolerance. The evaluation of the risks should also consider the factors and influences that affect the acceptability and

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

tolerability of the risks, such as the benefits, value, opportunities, costs, resources, constraints, etc. The evaluation of the risks should also involve the consultation and communication with the relevant stakeholders, to ensure the understanding, agreement, and involvement in the risk treatment actions and decisions.

Identifying Risks

Risk identification is the activity of identifying and describing the events, situations, or circumstances that may affect the achievement of the organizational objectives, positively or negatively. Risk identification is an essential and critical part of the risk assessment process, as it provides the input and foundation for the risk analysis and evaluation processes. Risk identification should be comprehensive and systematic, covering all the relevant sources, categories, and types of risks, as well as the causes, consequences, and controls of the risks.

The following are some steps and considerations for identifying the risks:

- Define the objectives and scope of the risk identification process. This means to specify the purpose, outcomes, and boundaries of the risk identification process, such as the level, area, function, process, activity, or asset that the risk identification process applies to, the stakeholders that are involved or affected by the risk identification process, and the resources and constraints that are available or required for the risk identification process.
- Review and use the risk context. This means to review and use the information and data that are collected and analyzed in the establishing the context step, such as the organizational structure, culture, strategy, objectives, policies, processes, resources, capabilities, stakeholders, relationships, opportunities, threats, strengths, weaknesses, etc. The review and use of the risk context helps to identify and understand the internal and external factors and influences that affect or may affect the risk profile of the organization, and to identify the potential sources, categories, and types of risks that the organization faces or may face.
- Collect and review the relevant information and data. This means to collect and review the additional information and data that are relevant and useful for the risk identification process, such as the historical and current data and records, the best practices and lessons learned, the benchmarks and standards, the legal, regulatory, and contractual obligations and requirements, the risk registers and reports, etc. The collection and review of the relevant information and data helps to identify and understand the

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

past, present, and future trends and developments that affect or may affect the risk profile of the organization, and to identify the potential causes, consequences, and controls of the risks that the organization faces or may face.

- Consult and communicate with the relevant stakeholders. This means to consult and communicate with the people who are involved or affected by the risk identification process, such as the senior management, the risk owners, the risk managers, the risk coordinators, the risk analysts, the risk experts, the risk champions, the risk committees, the risk auditors, the risk consultants, the risk trainers, the employees, the customers, the suppliers, the partners, the regulators, the media, the public, etc. The consultation and communication with the relevant stakeholders helps to identify and understand the needs and expectations of the stakeholders, and to identify the potential perspectives, views, and opinions of the stakeholders on the risks that the organization faces or may face.
- Use various methods, tools, and techniques. This means to use various methods, tools, and techniques that are suitable and effective for the risk identification process, such as brainstorming, interviews, surveys, checklists, SWOT analysis, PESTLE analysis, Porter's five forces analysis, fishbone diagram, cause and effect analysis, etc. The use of various methods, tools, and techniques helps to generate and capture the ideas and information on the risks that the organization faces or may face, and to organize and structure the risks in a logical and comprehensive manner.
- Document and report the risks. This means to document and report the risks that are identified in the risk identification process, by using a suitable format and medium, such as the risk register, the risk report, the risk database, the risk dashboard, etc. The documentation and reporting of the risks should include the following information: the risk ID, the risk name, the risk description, the risk source, the risk category, the risk type, the risk cause, the risk consequence, the risk control, the risk owner, the risk date, the risk status, etc. The documentation and reporting of the risks should also be timely, transparent, and effective, using the appropriate methods and channels for the documentation and reporting of the risks, such as the reports, presentations, meetings, workshops, etc.

Analyzing Risks (Part 1)

Risk analysis is the activity of analyzing and estimating the likelihood and impact of the risks, by determining the probability and consequence of the risks,

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

respectively. Risk analysis is an essential and critical part of the risk assessment process, as it provides the input and foundation for the risk evaluation process. Risk analysis should be consistent and objective, using the predefined risk criteria and scales, such as the likelihood and impact scales and the risk matrix. Risk analysis should also consider the factors and influences that affect the likelihood and impact of the risks, such as the causes, drivers, triggers, controls, mitigators, enablers, etc.

The following are some steps and considerations for analyzing the risks:

- Define the objectives and scope of the risk analysis process. This means to specify the purpose, outcomes, and boundaries of the risk analysis process, such as the level, area, function, process, activity, or asset that the risk analysis process applies to, the stakeholders that are involved or affected by the risk analysis process, and the resources and constraints that are available or required for the risk analysis process.
- Review and use the risk criteria and scales. This means to review and use the standards and measures that are defined and documented in the establishing the context step, such as the likelihood and impact scales, the risk matrix, the risk thresholds, and the risk tolerance. The review and use of the risk criteria and scales helps to ensure that the risks are analyzed and estimated in a consistent, objective, and transparent manner, and that the results and outputs of the risk analysis process are comparable and compatible with the risk evaluation process.
- Review and use the risks. This means to review and use the events, situations, or circumstances that are identified and documented in the risk identification process, such as the risk ID, the risk name, the risk description, the risk source, the risk category, the risk type, the risk cause, the risk consequence, the risk control, the risk owner, the risk date, the risk status, etc. The review and use of the risks helps to ensure that the risks are analyzed and estimated based on the relevant and accurate information and data, and that the results and outputs of the risk analysis process are aligned and integrated with the risk identification process.
- Analyze and estimate the likelihood of the risks. This means to analyze and estimate the probability of the risks occurring, by using the predefined likelihood scale, such as very low, low, medium, high, very high, or rare, unlikely, possible, likely, almost certain, etc. The analysis and estimation of the likelihood of the risks should consider the factors and influences that affect the probability of the risks, such as the causes, drivers, triggers,

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

controls, mitigators, enablers, etc. The analysis and estimation of the likelihood of the risks should also involve the use of various methods, tools, and techniques, such as scenario analysis, fault tree analysis, event tree analysis, bowtie analysis, Monte Carlo simulation, etc.

- Analyze and estimate the impact of the risks. This means to analyze and estimate the consequence of the risks if they occur, by using the predefined impact scale, such as very low, low, medium, high, very high, or insignificant, minor, moderate, major, catastrophic, etc. The analysis and estimation of the impact of the risks should consider the factors and influences that affect the consequence of the risks, such as the objectives, functions, processes, activities, assets, stakeholders, relationships, opportunities, threats, strengths, weaknesses, etc. The analysis and estimation of the impact of the risks should also involve the use of various methods, tools, and techniques, such as scenario analysis, fault tree analysis, event tree analysis, bowtie analysis, Monte Carlo simulation, etc.
- Document and report the likelihood and impact of the risks. This means to document and report the probability and consequence of the risks, by using a suitable format and medium, such as the risk register, the risk report, the risk database, the risk dashboard, etc. The documentation and reporting of the likelihood and impact of the risks should include the following information: the risk ID, the risk name, the risk description, the risk source, the risk category, the risk type, the risk cause, the risk consequence, the risk control, the risk owner, the risk date, the risk status, the risk likelihood, the risk impact, etc. The documentation and reporting of the likelihood and impact of the risks should also be timely, transparent, and effective, using the appropriate methods and channels for the documentation and reporting of the risks, such as the reports, presentations, meetings, workshops, etc.

Analyzing Risks (Part 2)

Utilize heat and bowtie charts for risk visualization. This means to use graphical tools that help to display and communicate the results and outputs of the risk analysis process, such as the heat chart and the bowtie chart. The heat chart is a two-dimensional matrix that shows the distribution and concentration of the risks based on their likelihood and impact, using different colors or shades to indicate the different levels and ranges of the risks, such as red, yellow, green, or high, medium, low, etc. The heat chart helps to identify and highlight the most significant and critical risks that require attention and action, and to compare and contrast the risks across different dimensions, such as the sources, categories, types,

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

functions, processes, activities, assets, etc. The bowtie chart is a diagram that shows the causal and consequential relationships of a specific risk, using a bowtie shape to illustrate the risk event, the causes, the consequences, and the controls. The bowtie chart helps to understand and explain the logic and rationale of the risk analysis process, and to identify and evaluate the effectiveness and efficiency of the existing and potential controls for the risk.

For example, a heat chart for the risks of a construction project could look like this:

Impact / Likelihood	Very Low	Low	Medium	High	Very High
Very High				R1: Structural failure	R2: Fatal accident
High			R3: Design error	R4: Delayed delivery	R5: Legal dispute
Medium		R6: Material shortage	R7: Cost overrun	R8: Quality defect	R9: Environmental damage
Low	R10: Weather disruption	R11: Equipment breakdown	R12: Staff turnover	R13: Stakeholder complaint	R14: Regulatory violation
Very Low	R15: Communication error	R16: Minor injury	R17: Change request	R18: Scope creep	R19: Reputation loss

Evaluating Risks

Evaluate and prioritize the risks. This means to evaluate and prioritize the risks based on their likelihood and impact, by comparing the probability and consequence of the risks with the predefined risk thresholds and tolerance, and by

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

assigning a risk level and priority to each risk. The evaluation and prioritization of the risks should be transparent and effective, using the predefined risk matrix and criteria, such as the risk levels and priorities and the risk thresholds and tolerance. The evaluation and prioritization of the risks should also consider the factors and influences that affect the acceptability and tolerability of the risks, such as the benefits, value, opportunities, costs, resources, constraints, etc. The evaluation and prioritization of the risks should also involve the consultation and communication with the relevant stakeholders, to ensure the understanding, agreement, and involvement in the risk treatment actions and decisions.

For example, a risk matrix for the risks of a construction project could look like this:

Risk Level / Impact	Very Low	Low	Medium	High	Very High
Very High	Medium	Medium	High	High	High
High	Low	Medium	Medium	High	High
Medium	Low	Low	Medium	Medium	High
Low	Low	Low	Low	Medium	Medium
Very Low	Low	Low	Low	Low	Medium

And the risk thresholds and tolerance for the construction project could be defined as follows:

- The risk threshold is the maximum level of risk that is acceptable or tolerable for the project, and it is set as high, meaning that any risk that is higher than high is unacceptable or intolerable, and requires immediate and urgent action.
- The risk tolerance is the range of variation of risk that is acceptable or tolerable for the project, and it is set as medium, meaning that any risk that is lower than medium is acceptable or tolerable, and does not require significant action.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Based on the risk matrix and the risk thresholds and tolerance, the risks of the construction project can be evaluated and prioritized as follows:

Risk Priority / Risk ID	Risk Name	Risk Likelihood	Risk Impact	Risk Level
1	R1: Structural failure	High	Very High	High
2	R2: Fatal accident	Very High	Very High	High
3	R3: Design error	Medium	High	Medium
4	R4: Delayed delivery	High	High	High
5	R5: Legal dispute	Very High	High	High
6	R6: Material shortage	Low	Medium	Low
7	R7: Cost overrun	Medium	Medium	Medium
8	R8: Quality defect	High	Medium	Medium
9	R9: Environmental damage	Very High	Medium	Medium
10	R10: Weather disruption	Very Low	Low	Low
11	R11: Equipment breakdown	Low	Low	Low
12	R12: Staff turnover	Medium	Low	Low
13	R13: Stakeholder complaint	High	Low	Medium

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

14	R14: Regulatory violation	Very High	Low	Medium
15	R15: Communication error	Very Low	Very Low	Low
16	R16: Minor injury	Low	Very Low	Low
17	R17: Change request	Medium	Very Low	Low
18	R18: Scope creep	High	Very Low	Low
19	R19: Reputation loss	Very High	Very Low	Medium

- Document and report the risk level and priority. This means to document and report the level and priority of the risks, by using a suitable format and medium, such as the risk register, the risk report, the risk database, the risk dashboard, etc. The documentation and reporting of the risk level and priority should include the following information: the risk ID, the risk name, the risk description, the risk source, the risk category, the risk type, the risk cause, the risk consequence, the risk control, the risk owner, the risk date, the risk status, the risk likelihood, the risk impact, the risk level, the risk priority, etc. The documentation and reporting of the risk level and priority should also be timely, transparent, and effective, using the appropriate methods and channels for the documentation and reporting of the risks, such as the reports, presentations, meetings, workshops, etc.

Step 3: Risk Treatment

Exploring various options for risk treatment. This means to explore and identify the possible and feasible alternatives and strategies for dealing with the risks, by taking into account the risk level and priority, the risk criteria and scales, the risk context and objectives, the stakeholder needs and expectations, and the cost-benefit analysis. **The exploration and identification of the options for risk treatment should be creative and comprehensive, covering the different types and modes of risk treatment, such as:**

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **Avoidance.** This means to eliminate or remove the risk source or cause, or to withdraw or refrain from the risk exposure or activity, such as canceling a project, terminating a contract, exiting a market, etc.
- **Reduction.** This means to decrease or mitigate the risk likelihood or impact, or to enhance or strengthen the risk controls or mitigators, such as implementing policies, procedures, standards, guidelines, etc., conducting training, education, awareness, etc., installing safeguards, barriers, alarms, etc., performing audits, inspections, tests, etc.
- **Transfer.** This means to shift or share the risk or part of the risk with another party or entity, such as outsourcing, subcontracting, delegating, etc., purchasing insurance, warranty, guarantee, etc., entering into partnerships, alliances, agreements, etc.
- **Retention.** This means to accept or tolerate the risk or part of the risk, by absorbing or bearing the risk consequences or costs, such as setting aside reserves, provisions, contingencies, etc., developing contingency plans, recovery plans, crisis management plans, etc., monitoring, reviewing, reporting, communicating, etc. the risk status and performance.
- **Exploitation.** This means to increase or enhance the risk likelihood or impact, or to leverage or capitalize on the risk opportunities or benefits, such as launching new products, services, markets, etc., pursuing innovation, diversification, growth, etc., investing in research, development, improvement, etc.

Selecting and implementing the optimal option for risk treatment. This means to select and implement the best and most suitable alternative or strategy for dealing with the risks, by evaluating and comparing the options for risk treatment based on their effectiveness, efficiency, feasibility, and acceptability, and by considering the risk level and priority, the risk criteria and scales, the risk context and objectives, the stakeholder needs and expectations, and the cost-benefit analysis. The selection and implementation of the option for risk treatment should be rational and justified, using the appropriate methods and tools for the evaluation and comparison of the options, such as the decision matrix, the decision tree, the multi-criteria analysis, etc. The selection and implementation of the option for risk treatment should also be planned and executed, using the suitable processes and procedures for the planning and execution of the option, such as the project management, change management, quality management, etc.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Exploring various options for risk treatment

This means to explore and identify the possible and feasible alternatives and strategies for dealing with the risks, by taking into account the risk level and priority, the risk criteria and scales, the risk context and objectives, the stakeholder needs and expectations, and the cost-benefit analysis. The exploration and identification of the options for risk treatment should be creative and comprehensive, covering the different types and modes of risk treatment, such as:

- **Avoidance.** This means to eliminate or remove the risk source or cause, or to withdraw or refrain from the risk exposure or activity, such as canceling a project, terminating a contract, exiting a market, etc. For example, if the risk of a cyberattack is too high and the impact is too severe, the organization may decide to avoid the risk by shutting down its online services or platforms until the security is improved.
- **Reduction.** This means to decrease or mitigate the risk likelihood or impact, or to enhance or strengthen the risk controls or mitigators, such as implementing policies, procedures, standards, guidelines, etc., conducting training, education, awareness, etc., installing safeguards, barriers, alarms, etc., performing audits, inspections, tests, etc. For example, if the risk of a fire is moderate and the impact is high, the organization may decide to reduce the risk by enforcing fire safety rules and regulations, providing fire extinguishers and sprinklers, conducting fire drills and simulations, etc.
- **Transfer.** This means to shift or share the risk or part of the risk with another party or entity, such as outsourcing, subcontracting, delegating, etc., purchasing insurance, warranty, guarantee, etc., entering into partnerships, alliances, agreements, etc. For example, if the risk of a legal dispute is low and the impact is high, the organization may decide to transfer the risk by hiring a legal firm to handle the case, buying a liability insurance to cover the potential damages, or signing a settlement agreement to resolve the conflict.
- **Retention.** This means to accept or tolerate the risk or part of the risk, by absorbing or bearing the risk consequences or costs, such as setting aside reserves, provisions, contingencies, etc., developing contingency plans, recovery plans, crisis management plans, etc., monitoring, reviewing, reporting, communicating, etc. the risk status and performance. For example, if the risk of a market fluctuation is high and the impact is low, the organization may decide to retain the risk by allocating a budget for the

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

expected losses, preparing a plan for adjusting the prices or costs, or informing the stakeholders about the market situation and the actions taken.

- **Exploitation.** This means to increase or enhance the risk likelihood or impact, or to leverage or capitalize on the risk opportunities or benefits, such as launching new products, services, markets, etc., pursuing innovation, diversification, growth, etc., investing in research, development, improvement, etc. For example, if the risk of a technological breakthrough is low and the impact is high, the organization may decide to exploit the risk by introducing a new solution or feature, expanding to a new market or segment, or investing in research and development to gain a competitive edge.

APPENDICES

Glossary of Terms

This section provides the definitions and explanations of some key terms and concepts related to risk management, such as:

- **Risk.** This means the effect of uncertainty on objectives, which can be positive or negative, or a deviation from the expected. For example, a risk for a project could be a delay in the delivery of a critical component, which could affect the project schedule and budget negatively, or a change in the customer requirements, which could create new opportunities for innovation and value creation positively.
- **Risk Management.** This means the coordinated activities to direct and control an organization with regard to risk, which includes risk identification, assessment, treatment, monitoring, and communication. For example, a risk management process for a project could involve identifying the potential risks that could affect the project objectives, analyzing their likelihood and impact, selecting and implementing the appropriate risk responses, tracking and reporting the risk status and performance, and communicating the risk information to the relevant stakeholders.
- **Risk Criteria.** This means the terms of reference against which the significance of a risk is evaluated, which may include the risk appetite, the risk tolerance, the risk scales, the risk thresholds, etc. For example, a risk criterion for a project could specify that the project can accept a maximum of 10% deviation from the planned schedule and budget, and that the risk level

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

is measured by a five-point scale of very low, low, moderate, high, and very high.

- **Risk Appetite.** This means the amount and type of risk that an organization is willing to pursue or accept in order to achieve its objectives. For example, a risk appetite for a project could indicate that the project is willing to take more risks in order to deliver a high-quality product that meets the customer expectations and enhances the competitive advantage.
- **Risk Tolerance.** This means the readiness of an organization to bear the risk after risk treatment in order to achieve its objectives, or the maximum amount of risk that an organization can withstand. For example, a risk tolerance for a project could define that the project cannot tolerate any risks that could compromise the safety, security, or compliance of the product or the project team.
- **Risk Level.** This means the magnitude of a risk or a combination of risks, expressed in terms of the combination of consequences and their likelihood. For example, a risk level for a project could be calculated by multiplying the probability and the impact of a risk, and then comparing it with the risk criteria and the risk matrix.
- **Risk Priority.** This means the relative importance or urgency of addressing a risk or a combination of risks, based on the risk level and other factors, such as the stakeholder expectations, the organizational context, the cost-benefit analysis, etc. For example, a risk priority for a project could be determined by ranking the risks according to their risk level, and then considering the potential benefits and costs of treating each risk, as well as the stakeholder preferences and the project constraints.
- **Risk Treatment.** This means the process of selecting and implementing measures to modify the risk, which may include avoiding, reducing, transferring, retaining, or exploiting the risk. For example, a risk treatment for a project could involve choosing one or more of the following options for each risk: avoiding the risk by eliminating its causes or changing the project plan, reducing the risk by implementing risk controls or mitigating actions, transferring the risk by sharing or outsourcing it to a third party, retaining the risk by accepting and budgeting for it, or exploiting the risk by enhancing or maximizing its positive effects.
- **Risk Control.** This means a measure that is modifying risk, which may include any policy, procedure, practice, device, solution, action, or contingency plan. For example, a risk control for a project could be a quality

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

assurance process, a change management system, a contract clause, a backup plan, a preventive action, or a contingency reserve.

- **Risk Owner.** This means a person or entity with the accountability and authority to manage a risk. For example, a risk owner for a project could be the project manager, the project sponsor, the project team member, the customer, the supplier, or any other stakeholder who is responsible for and capable of managing the risk.

Additional Resources

This section provides some useful links and references to further information and guidance on risk management, such as:

- ISO 31000:2018. This is the international standard for risk management, which provides the principles, framework, and process for managing risk effectively and consistently across all types of organizations and contexts.
- COSO ERM Framework. This is the comprehensive framework for enterprise risk management, which integrates risk management with strategy, performance, governance, and culture.
- PMBOK Guide. This is the guide to the project management body of knowledge, which covers the knowledge areas, processes, tools, and techniques for managing risk in projects.
- IRM Risk Management Toolkit. This is the online resource center for risk management, which offers practical tools, templates, guides, and case studies for risk practitioners and professionals.

Sample Templates and Tools

This section provides some examples of templates and tools that can be used or adapted for risk management purposes, such as:

Strengths	Weaknesses
Highly skilled and experienced project team Strong customer relationship and trust Advanced technology and innovation	Limited resources and capacity Complex and uncertain project environment High dependency on external suppliers

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Competitive pricing and quality	Lack of formal risk management process
Opportunities	Threats
<p>New market segments and customer needs</p> <p>Positive feedback and referrals from existing customers</p> <p>Government incentives and support for the industry</p> <p>Emerging trends and best practices in the field</p>	<p>Increased competition and price pressure</p> <p>Changing customer expectations and requirements</p> <p>Legal and regulatory changes and compliance issues</p> <p>Natural disasters and pandemics</p>

References and Further Reading

This section provides the list of sources and publications that were used or referenced in the development of this BOK, as well as some suggestions for further reading on risk management topics, such as:

- **ISO 31000:2018. Risk management — Guidelines.** International Organization for Standardization, 2018.
- **COSO. Enterprise Risk Management — Integrating with Strategy and Performance.** Committee of Sponsoring Organizations of the Treadway Commission, 2017.
- **PMI. A Guide to the Project Management Body of Knowledge (PMBOK® Guide) — Sixth Edition.** Project Management Institute, 2017.
- **IRM. A Risk Practitioner’s Guide to ISO 31000: 2018.** Institute of Risk Management, 2018.
- **Hopkin, P. Fundamentals of Risk Management: Understanding, Evaluating and Implementing Effective Risk Management.** Kogan Page, 2018.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **Chapman, R. and Ward, S. How to Manage Project Opportunity and Risk: Why Uncertainty Management Can Be a Much Better Approach Than Risk Management.** John Wiley & Sons, 2011.
- **Hillson, D. and Murray-Webster, R. Understanding and Managing Risk Attitude.** Routledge, 2007.

MCQ'S:

Question 1:

Scenario: An organization is implementing a new risk management framework based on ISO 31000:2018. The team needs to define the organization's risk appetite. Which of the following best describes risk appetite?

- A. The maximum amount of risk the organization is willing to accept.
- B. The process of identifying and analyzing risks.
- C. The residual risk after controls have been implemented.
- D. The financial resources allocated to risk management.

Correct Answer: A. The maximum amount of risk the organization is willing to accept.

Detailed Explanation:

- **A: Correct.** Risk appetite refers to the amount and type of risk an organization is prepared to pursue or retain. This is a fundamental aspect of risk management as it helps in setting boundaries within which risks are managed.
- **B: Incorrect.** This option describes risk assessment, which involves identifying and analyzing risks but does not define the organization's willingness to accept risk.
- **C: Incorrect.** Residual risk is the remaining risk after controls have been applied, not the initial amount of risk the organization is willing to take.
- **D: Incorrect.** This refers to the budget or resources dedicated to risk management, which is not synonymous with risk appetite.

Question 2:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Scenario: During the risk assessment phase, a company uses a bowtie diagram to understand a particular risk. What is the primary purpose of a bowtie diagram?

- A. To identify stakeholders affected by risks.
- B. To illustrate the causal and consequential relationships of a risk.
- C. To prioritize risks based on their impact.
- D. To allocate resources for risk management.

Correct Answer: B. To illustrate the causal and consequential relationships of a risk.

Detailed Explanation:

- **A: Incorrect.** Stakeholder identification is about recognizing individuals or groups affected by or affecting the risk, not what a bowtie diagram is designed for.
- **B: Correct.** A bowtie diagram provides a visual representation of the causes of a risk event (left side of the bowtie) and its potential consequences (right side), including preventive and mitigative controls.
- **C: Incorrect.** Risk prioritization is often performed using risk matrices rather than bowtie diagrams.
- **D: Incorrect.** Resource allocation for risk management is not the primary purpose of a bowtie diagram.

Question 3:

Scenario: An organization is evaluating the risks identified in a recent risk assessment. Which method is most appropriate for visually representing the distribution and concentration of risks based on their likelihood and impact?

- A. SWOT Analysis
- B. PESTLE Analysis
- C. Heat Map
- D. Risk Register

Correct Answer: C. Heat Map

Detailed Explanation:

- **A: Incorrect.** SWOT analysis identifies strengths, weaknesses, opportunities, and threats but does not visualize risk distribution.
- **B: Incorrect.** PESTLE analysis examines external macro-environmental factors impacting the organization.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **C: Correct.** Heat maps visually display risks according to their likelihood and impact, helping to prioritize them effectively.
- **D: Incorrect.** A risk register documents details about each risk but does not provide a visual representation of risk distribution.

Question 4:

Scenario: A company is deciding how to respond to a risk that has been identified as both high in likelihood and impact. Which risk treatment option involves transferring the risk to another party?

- A. Mitigation
- B. Avoidance
- C. Transfer
- D. Acceptance

Correct Answer: C. Transfer

Detailed Explanation:

- **A: Incorrect.** Mitigation involves reducing the likelihood or impact of a risk through proactive measures.
- **B: Incorrect.** Avoidance involves taking actions to completely eliminate the risk.
- **C: Correct.** Transfer involves shifting the risk to another party, such as through insurance or outsourcing.
- **D: Incorrect.** Acceptance involves recognizing the risk and deciding to live with it without taking any action to alter its likelihood or impact.

Question 5:

Scenario: In a risk management meeting, the team discusses the concept of "risk owner." Who is typically considered a risk owner?

- A. The CEO of the company.
- B. Any person or entity responsible for managing a specific risk.
- C. The risk management team.
- D. The financial auditor.

Correct Answer: B. Any person or entity responsible for managing a specific risk.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Detailed Explanation:

- **A: Incorrect.** While the CEO may be a risk owner for some strategic risks, this is not always the case for every risk.
- **B: Correct.** A risk owner is any individual or entity tasked with managing and overseeing a particular risk, ensuring that appropriate actions are taken.
- **C: Incorrect.** The risk management team supports and facilitates risk management processes but doesn't necessarily own specific risks.
- **D: Incorrect.** Financial auditors review financial controls and risk management practices but do not own specific risks.

Question 6:

Scenario: An organization is using ISO 31000:2018 principles to integrate risk management into its corporate culture. Which principle emphasizes the importance of considering the behavior, values, and perceptions of people involved in risk management?

- A. Risk management creates and protects value.
- B. Risk management is an integral part of all organizational activities.
- C. Risk management explicitly addresses uncertainty.
- D. Risk management takes human and cultural factors into account.

Correct Answer: D. Risk management takes human and cultural factors into account.

Detailed Explanation:

- **A: Incorrect.** This principle focuses on how risk management contributes to achieving objectives and improving performance.
- **B: Incorrect.** This principle emphasizes embedding risk management into all organizational processes.
- **C: Incorrect.** This principle focuses on understanding and dealing with uncertainty.
- **D: Correct.** This principle highlights the need to consider human and cultural aspects, recognizing that people's behaviors, values, and perceptions significantly influence risk management outcomes.

Question 7:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Scenario: A company has identified a risk of project delay due to potential supply chain disruptions. Which of the following actions is an example of risk mitigation?

- A. Ignoring the risk as it is unlikely to happen.
- B. Purchasing insurance to cover potential delays.
- C. Developing a contingency plan with alternative suppliers.
- D. Accepting the risk and planning for delays.

Correct Answer: C. Developing a contingency plan with alternative suppliers.

Detailed Explanation:

- **A: Incorrect.** Ignoring the risk does not address it and leaves the company vulnerable.
- **B: Incorrect.** Purchasing insurance transfers the risk but does not mitigate it.
- **C: Correct.** Developing a contingency plan reduces the potential impact of supply chain disruptions, hence mitigating the risk.
- **D: Incorrect.** Accepting the risk means no action is taken to change its likelihood or impact.

Question 8:

Scenario: The risk management team is conducting a PESTLE analysis. What type of risks are they primarily identifying?

- A. Internal risks
- B. Financial risks
- C. External risks
- D. Operational risks

Correct Answer: C. External risks

Detailed Explanation:

- **A: Incorrect.** PESTLE analysis focuses on external factors impacting the organization.
- **B: Incorrect.** While financial risks can be external, PESTLE covers a broader range of external influences.
- **C: Correct.** PESTLE analysis identifies political, economic, social, technological, legal, and environmental factors, all of which are external to the organization.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **D: Incorrect.** Operational risks are typically internal, involving processes within the organization.

Question 9:

Scenario: In reviewing their risk register, the organization finds a risk categorized as having a low likelihood but high impact. According to the risk matrix, how should this risk generally be prioritized?

- A. Low priority
- B. Medium priority
- C. High priority
- D. Ignore the risk

Correct Answer: C. High priority

Detailed Explanation:

- **A: Incorrect.** Even though the likelihood is low, the high impact necessitates significant attention.
- **B: Incorrect.** Medium priority is usually for risks with moderate impact and likelihood.
- **C: Correct.** Risks with high impact should be prioritized highly, even if their likelihood is low, due to the severe consequences if they do occur.
- **D: Incorrect.** Ignoring a high-impact risk is not advisable regardless of its likelihood.

Question 10:

Scenario: An organization wants to continuously improve its risk management processes. Which ISO 31000:2018 principle supports this objective?

- A. Risk management creates and protects value.
- B. Risk management is based on the best available information.
- C. Risk management is transparent and inclusive.
- D. Risk management facilitates continual improvement.

Correct Answer: D. Risk management facilitates continual improvement.

Detailed Explanation:

- **A: Incorrect.** This principle focuses on ensuring that risk management contributes to achieving and protecting organizational value.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **B: Incorrect.** This principle emphasizes using the most reliable data and information available.
- **C: Incorrect.** This principle involves engaging stakeholders and ensuring transparency in risk management processes.
- **D: Correct.** The principle of continual improvement encourages ongoing enhancement of risk management processes and practices, ensuring they remain effective and responsive to changes.

Question 11:

Scenario: A company's board of directors is reviewing the organization's risk management framework to ensure it aligns with the new corporate strategy. Which component of the ISO 31000:2018 framework helps in aligning risk management with the organization's strategy?

- A. Risk Assessment
- B. Risk Treatment
- C. Risk Management Framework
- D. Risk Monitoring and Review

Correct Answer: C. Risk Management Framework

Detailed Explanation:

- **A: Incorrect.** Risk assessment focuses on identifying, analyzing, and evaluating risks but does not ensure alignment with the overall strategy.
- **B: Incorrect.** Risk treatment involves selecting and implementing measures to manage risks, not aligning risk management with strategy.
- **C: Correct.** The risk management framework provides the structure and organizational arrangements that ensure risk management processes are integrated with the organization's strategy, objectives, and governance, making it a crucial component for strategic alignment.
- **D: Incorrect.** Risk monitoring and review focus on the ongoing assessment of risk management effectiveness and making necessary adjustments, but do not directly align risk management with strategy.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Question 12:

Scenario: An IT company is assessing the potential risks of a new software development project. Which risk assessment technique involves considering the sequence of events leading to a risk event and its potential consequences?

- A. Risk Register
- B. Fault Tree Analysis
- C. SWOT Analysis
- D. PESTLE Analysis

Correct Answer: B. Fault Tree Analysis

Detailed Explanation:

- **A: Incorrect.** A risk register is a tool for documenting identified risks, their status, and details, but it doesn't analyze the sequence of events leading to risks.
- **B: Correct.** Fault Tree Analysis (FTA) is a deductive analysis method that starts with an undesired event (the top event) and uses logic diagrams to map out all potential causes leading to that event. This helps in understanding the sequence of events and identifying critical points for intervention.
- **C: Incorrect.** SWOT analysis identifies strengths, weaknesses, opportunities, and threats at a strategic level but does not map sequences of events.
- **D: Incorrect.** PESTLE analysis examines external macro-environmental factors (Political, Economic, Social, Technological, Legal, Environmental) but does not focus on event sequences.

Question 13:

Scenario: The risk management team is developing risk criteria for a manufacturing company. Which of the following best describes risk criteria?

- A. The documentation of all identified risks.
- B. The basis for evaluating the significance of risks.
- C. The strategies for mitigating risks.
- D. The guidelines for monitoring risks.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Correct Answer: B. The basis for evaluating the significance of risks.

Detailed Explanation:

- **A: Incorrect.** This option refers to a risk register, which lists all identified risks.
- **B: Correct.** Risk criteria are standards used to evaluate and prioritize risks based on factors such as their impact and likelihood. These criteria help in determining which risks are significant enough to require action.
- **C: Incorrect.** This describes risk treatment strategies, which are actions taken to manage risks.
- **D: Incorrect.** This pertains to monitoring guidelines, not the criteria for evaluating risk significance.

Question 14:

Scenario: During a risk management workshop, the facilitator explains the concept of 'risk context.' What does establishing the context involve?

- A. Developing risk response plans.
- B. Identifying and defining the external and internal environment.
- C. Implementing risk treatment actions.
- D. Reviewing risk management performance.

Correct Answer: B. Identifying and defining the external and internal environment.

Detailed Explanation:

- **A: Incorrect.** Developing risk response plans is part of risk treatment.
- **B: Correct.** Establishing the context involves understanding both internal and external factors that influence the organization, such as its culture, structure, regulatory environment, and market conditions. This step sets the scope and criteria for the risk management process.
- **C: Incorrect.** Implementing risk treatment actions follows the assessment and planning phases.
- **D: Incorrect.** Reviewing performance is part of the monitoring and review phase.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Question 15:

Scenario: An organization is using a risk heat map to assess its risk profile. What does the color coding on a risk heat map typically represent?

- A. The timeframe for risk mitigation.
- B. The categories of risks.
- C. The severity and likelihood of risks.
- D. The stakeholders responsible for risks.

Correct Answer: C. The severity and likelihood of risks.

Detailed Explanation:

- **A: Incorrect.** The timeframe for mitigation is usually not depicted in color coding on a heat map.
- **B: Incorrect.** Categories of risks might be labeled but are not typically color-coded.
- **C: Correct.** A heat map uses colors to represent different levels of risk severity and likelihood, helping to visualize and prioritize risks based on their potential impact and probability.
- **D: Incorrect.** Stakeholder responsibility is documented elsewhere, not in the color coding of a heat map.

Question 16:

Scenario: A financial institution needs to ensure compliance with new regulatory requirements. Which type of risk is this primarily addressing?

- A. Strategic Risk
- B. Operational Risk
- C. Compliance Risk
- D. Financial Risk

Correct Answer: C. Compliance Risk

Detailed Explanation:

- **A: Incorrect.** Strategic risks relate to the overall goals and direction of the organization.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **B: Incorrect.** Operational risks involve internal processes, systems, and daily business operations.
- **C: Correct.** Compliance risk involves ensuring that the organization adheres to laws, regulations, and internal policies, which is crucial for avoiding legal penalties and maintaining operational integrity.
- **D: Incorrect.** Financial risks concern the financial health and stability of the organization, including factors like market fluctuations and credit risk.

Question 17:

Scenario: The management of a retail company decides to implement risk management practices as per ISO 31000:2018. Which principle emphasizes that risk management should be part of decision-making?

- A. Risk management is based on the best available information.
- B. Risk management is an integral part of organizational processes.
- C. Risk management explicitly addresses uncertainty.
- D. Risk management is systematic, structured, and timely.

Correct Answer: B. Risk management is an integral part of organizational processes.

Detailed Explanation:

- **A: Incorrect.** This principle ensures risk management is based on accurate and reliable data.
- **B: Correct.** Integrating risk management into organizational processes ensures it influences decision-making at all levels, making risk considerations a part of strategic, operational, and tactical decisions.
- **C: Incorrect.** This principle highlights the importance of understanding and dealing with uncertainty.
- **D: Incorrect.** This principle ensures risk management is carried out in a consistent, thorough, and timely manner.

Question 18:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Scenario: An organization has a robust risk management framework in place. To continuously improve, they decide to benchmark their practices. What does benchmarking involve?

- A. Identifying and copying competitors' risk management strategies.
- B. Comparing one's risk management practices against best practices in the industry.
- C. Conducting internal audits of risk management processes.
- D. Documenting all identified risks in a risk register.

Correct Answer: B. Comparing one's risk management practices against best practices in the industry.

Detailed Explanation:

- **A: Incorrect.** Benchmarking is not about copying but learning and adapting best practices.
- **B: Correct.** Benchmarking involves comparing the organization's risk management practices with industry best practices to identify gaps, strengths, and areas for improvement, thereby enhancing performance and effectiveness.
- **C: Incorrect.** Internal audits are part of the monitoring process.
- **D: Incorrect.** Documenting risks is related to maintaining a risk register, not benchmarking.

Question 19:

Scenario: A project manager is conducting a risk assessment for a construction project. They need to evaluate the likelihood of risks. Which term describes the process of determining the chance of a risk occurring?

- A. Risk Impact Analysis
- B. Risk Probability Assessment
- C. Risk Treatment
- D. Risk Review

Correct Answer: B. Risk Probability Assessment

Detailed Explanation:

- **A: Incorrect.** Risk impact analysis assesses the consequences of risks.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **B: Correct.** Risk probability assessment involves estimating how likely it is that a risk event will occur, which is crucial for prioritizing risks and planning responses.
- **C: Incorrect.** Risk treatment is about selecting and implementing measures to manage risks.
- **D: Incorrect.** Risk review involves evaluating the effectiveness of the risk management process.

Question 20:

Scenario: An organization uses ISO 31000:2018 to guide its risk management process. Which step involves comparing risk levels against risk criteria to determine their significance?

- A. Risk Identification
- B. Risk Analysis
- C. Risk Evaluation
- D. Risk Treatment

Correct Answer: C. Risk Evaluation

Detailed Explanation:

- **A: Incorrect.** Risk identification focuses on finding and describing risks.
- **B: Incorrect.** Risk analysis involves understanding the nature and characteristics of risks.
- **C: Correct.** Risk evaluation involves comparing the analyzed risk levels against pre-defined risk criteria to determine their significance, prioritize them, and decide on the appropriate actions.
- **D: Incorrect.** Risk treatment focuses on selecting and implementing measures to address risks.

Question 21:

Scenario: A healthcare organization is implementing a risk management process to improve patient safety. During risk identification, what should be the primary focus?

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- A. Listing all financial risks.
- B. Identifying risks that could impact patient safety.
- C. Documenting operational efficiencies.
- D. Assessing market competition.

Correct Answer: B. Identifying risks that could impact patient safety.

Detailed Explanation:

- **A: Incorrect.** While financial risks are important, they are not the primary concern when the goal is to enhance patient safety. The focus should be on risks directly affecting patients.
- **B: Correct.** For a healthcare organization, the main objective during risk identification should be to find risks that could adversely affect patient safety. These risks might include potential medical errors, equipment failures, or lapses in infection control practices, as addressing these is vital to protecting patients and ensuring quality care.
- **C: Incorrect.** Operational efficiencies are important but not the central focus when aiming to improve patient safety.
- **D: Incorrect.** Market competition, while relevant for business strategy, does not directly impact patient safety.

Question 22:

Scenario: A company wants to evaluate the effectiveness of its current risk controls. Which method is best suited for this purpose?

- A. Risk Heat Map
- B. Risk Register
- C. Control Self-Assessment
- D. SWOT Analysis

Correct Answer: C. Control Self-Assessment

Detailed Explanation:

- **A: Incorrect.** A risk heat map is used to visualize risks based on their likelihood and impact but does not evaluate the effectiveness of controls.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **B: Incorrect.** A risk register documents identified risks and details but does not assess control effectiveness.
- **C: Correct.** Control Self-Assessment (CSA) is a method where employees at various levels of the organization evaluate the effectiveness of risk controls within their areas of responsibility. This method is effective because it engages those most familiar with the specific processes and controls, providing practical insights into how well controls are working and where improvements might be needed.
- **D: Incorrect.** SWOT analysis identifies strengths, weaknesses, opportunities, and threats but is not specifically designed to evaluate the effectiveness of controls.

Question 23:

Scenario: An organization decides to transfer a risk by purchasing insurance. Which type of risk treatment strategy is this?

- A. Risk Avoidance
- B. Risk Reduction
- C. Risk Sharing
- D. Risk Acceptance

Correct Answer: C. Risk Sharing

Detailed Explanation:

- **A: Incorrect.** Risk avoidance involves completely eliminating the risk by not engaging in the activity that produces the risk.
- **B: Incorrect.** Risk reduction involves actions taken to lessen the likelihood or impact of a risk.
- **C: Correct.** Risk sharing involves transferring a portion of the risk to another party, typically through mechanisms like insurance. By purchasing insurance, the organization transfers some financial consequences of the risk to the insurer, effectively sharing the risk.
- **D: Incorrect.** Risk acceptance means the organization decides to accept the risk without making changes to address it.

Question 24:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Scenario: A manufacturing company wants to implement ISO 31000:2018 risk management principles to enhance its decision-making process. Which principle emphasizes using the best available information?

- A. Risk management is an integral part of organizational processes.
- B. Risk management is based on the best available information.
- C. Risk management explicitly addresses uncertainty.
- D. Risk management is dynamic and responsive to change.

Correct Answer: B. Risk management is based on the best available information.

Detailed Explanation:

- **A: Incorrect.** This principle emphasizes embedding risk management into all aspects of the organization but not specifically the quality of information.
- **B: Correct.** The principle of using the best available information ensures that decision-making is informed by the most accurate, relevant, and timely data. This includes historical data, current facts, and future projections, enhancing the reliability and effectiveness of risk management decisions.
- **C: Incorrect.** This principle focuses on understanding and addressing uncertainty.
- **D: Incorrect.** This principle emphasizes adapting to changes, which is important but different from using the best available information.

Question 25:

Scenario: During a risk management review, an organization discovers that a previously low-impact risk has now increased in likelihood and potential impact. Which step should be taken next?

- A. Re-evaluate the risk based on the new information.
- B. Ignore the changes and continue with the current plan.
- C. Remove the risk from the risk register.
- D. Reallocate resources to other areas.

Correct Answer: A. Re-evaluate the risk based on the new information.

Detailed Explanation:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **A: Correct.** Re-evaluating the risk with the new information is crucial to updating the risk profile and determining the necessary adjustments in the risk management plan. This includes reassessing the likelihood, impact, and potential consequences, and deciding on appropriate treatment measures.
- **B: Incorrect.** Ignoring the changes could lead to unanticipated negative outcomes and increased exposure to risk.
- **C: Incorrect.** Removing the risk from the register without proper evaluation is not advisable as it disregards the updated information.
- **D: Incorrect.** Reallocating resources without first re-evaluating the risk could lead to misinformed decisions.

Question 26:

Scenario: A company wants to ensure that all employees understand their roles in the risk management process. What is an effective way to achieve this?

- A. Conducting annual financial audits.
- B. Developing a clear risk management policy and providing training.
- C. Implementing new IT systems.
- D. Increasing the budget for marketing.

Correct Answer: B. Developing a clear risk management policy and providing training.

Detailed Explanation:

- **A: Incorrect.** Financial audits are important but do not educate employees about their roles in risk management.
- **B: Correct.** A clear risk management policy outlines the framework, roles, and responsibilities of all employees in managing risks. Providing training ensures that employees understand their roles, the risk management process, and how to effectively contribute to it.
- **C: Incorrect.** New IT systems may support risk management but do not directly address employee understanding.
- **D: Incorrect.** Increasing the marketing budget does not help employees understand their risk management roles.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Question 27:

Scenario: An organization is in the process of integrating risk management into its corporate culture. Which strategy can help achieve this integration?

- A. Keeping risk management discussions limited to the executive level.
- B. Encouraging open communication about risks at all organizational levels.
- C. Avoiding documentation of risk management activities.
- D. Focusing exclusively on financial risks.

Correct Answer: B. Encouraging open communication about risks at all organizational levels.

Detailed Explanation:

- **A: Incorrect.** Limiting discussions to the executive level hinders widespread engagement and integration.
- **B: Correct.** Encouraging open communication ensures that risk management is a shared responsibility, promotes transparency, and helps build a risk-aware culture where employees at all levels feel empowered to identify and address risks.
- **C: Incorrect.** Documentation is essential for tracking, accountability, and learning.
- **D: Incorrect.** Focusing solely on financial risks ignores other significant risks like operational, strategic, and compliance risks.

Question 28:

Scenario: The risk management team uses a risk matrix to prioritize risks. Which factors are typically plotted on the axes of a risk matrix?

- A. Financial cost and mitigation cost.
- B. Likelihood and impact.
- C. Number of stakeholders affected and risk duration.
- D. Risk owner and risk category.

Correct Answer: B. Likelihood and impact.

Detailed Explanation:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **A: Incorrect.** Financial cost and mitigation cost are not typically plotted on a risk matrix.
- **B: Correct.** A risk matrix plots the likelihood (probability) of a risk event occurring against the impact (severity) if it does occur. This visual tool helps prioritize risks by highlighting those with high likelihood and high impact, guiding decision-makers in resource allocation and treatment measures.
- **C: Incorrect.** These factors are not typically used in a risk matrix for prioritizing risks.
- **D: Incorrect.** Risk owner and category are important but not typically represented on the axes of a risk matrix.

Question 29:

Scenario: An organization is revising its risk management framework and wants to ensure it is tailored to its specific needs. Which principle of ISO 31000:2018 supports this approach?

- A. Risk management creates and protects value.
- B. Risk management is customized.
- C. Risk management is systematic and structured.
- D. Risk management is inclusive.

Correct Answer: B. Risk management is customized.

Detailed Explanation:

- **A: Incorrect.** This principle focuses on the overall value and benefits risk management provides.
- **B: Correct.** Customization ensures that the risk management framework is specifically tailored to the unique context, objectives, and needs of the organization. This principle emphasizes the importance of adapting the risk management approach to fit the specific circumstances and environment of the organization.
- **C: Incorrect.** This principle emphasizes having a consistent and methodical approach.
- **D: Incorrect.** Inclusiveness is about involving stakeholders but does not specifically address customization.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Question 30:

Scenario: A company has identified several key risks in its operations. What should be the next step in the risk management process according to ISO 31000:2018?

- A. Immediately implementing risk treatment measures.
- B. Analyzing the identified risks to understand their characteristics.
- C. Communicating the risks to all stakeholders.
- D. Monitoring the identified risks without further action.

Correct Answer: B. Analyzing the identified risks to understand their characteristics.

Detailed Explanation:

- **A: Incorrect.** Treatment should not be implemented without a thorough analysis.
- **B: Correct.** After identifying risks, the next step is to analyze them to understand their nature, potential impact, and likelihood. This involves determining the causes and effects of each risk and how they might influence the organization. This understanding is crucial before deciding on the most appropriate treatment measures.
- **C: Incorrect.** Communication is important but should come after thorough analysis and planning.
- **D: Incorrect.** Monitoring alone is insufficient without first understanding the risks.

Question 31:

Scenario: A logistics company is conducting a risk assessment and identifies a potential risk of supply chain disruption due to natural disasters. Which risk treatment option would involve setting up multiple suppliers?

- A. Risk Avoidance
- B. Risk Reduction
- C. Risk Sharing
- D. Risk Acceptance

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Correct Answer: B. Risk Reduction

Detailed Explanation:

- **A: Incorrect.** Risk avoidance would involve stopping activities that expose the company to supply chain risks, which is not practical in this case.
- **B: Correct.** Risk reduction involves taking steps to minimize either the likelihood of the risk occurring or the impact if it does occur. Setting up multiple suppliers diversifies the risk and reduces the potential impact of a supply chain disruption.
- **C: Incorrect.** Risk sharing would involve transferring some of the risk to another party, such as through insurance.
- **D: Incorrect.** Risk acceptance involves acknowledging the risk without taking proactive steps to mitigate it.

Question 32:

Scenario: A software development company is reviewing its risk management process and decides to use historical data to predict future risks. Which ISO 31000:2018 principle does this practice align with?

- A. Risk management creates and protects value.
- B. Risk management is based on the best available information.
- C. Risk management explicitly addresses uncertainty.
- D. Risk management is part of decision-making.

Correct Answer: B. Risk management is based on the best available information.

Detailed Explanation:

- **A: Incorrect.** This principle focuses on the value added by effective risk management.
- **B: Correct.** Using historical data to predict future risks ensures that decisions are informed by the most accurate, reliable, and relevant information available. This helps in making well-grounded risk management decisions.
- **C: Incorrect.** While this principle is important, it specifically focuses on understanding and managing uncertainty.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **D: Incorrect.** This principle emphasizes integrating risk management into all decision-making processes.

Question 33:

Scenario: An organization is creating a risk management framework. Which component involves defining the scope, objectives, and criteria for risk management activities?

- A. Risk Identification
- B. Establishing the Context
- C. Risk Analysis
- D. Risk Evaluation

Correct Answer: B. Establishing the Context

Detailed Explanation:

- **A: Incorrect.** Risk identification is about finding and describing risks.
- **B: Correct.** Establishing the context involves defining the external and internal environment in which the organization operates, as well as the scope, objectives, and criteria for the risk management process. This step sets the foundation for the entire risk management framework.
- **C: Incorrect.** Risk analysis involves understanding the nature and characteristics of identified risks.
- **D: Incorrect.** Risk evaluation involves comparing risk levels against risk criteria to prioritize them.

Question 34:

Scenario: A financial services firm conducts a risk assessment and finds that its cybersecurity measures are outdated. What type of risk is primarily being addressed?

- A. Operational Risk
- B. Strategic Risk
- C. Compliance Risk
- D. Financial Risk

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Correct Answer: A. Operational Risk

Detailed Explanation:

- **A: Correct.** Operational risk involves risks arising from internal processes, people, systems, or external events. Outdated cybersecurity measures are an operational risk because they affect the organization's day-to-day operations and expose it to potential threats.
- **B: Incorrect.** Strategic risks are related to the high-level goals and direction of the organization.
- **C: Incorrect.** Compliance risks involve adhering to laws and regulations.
- **D: Incorrect.** Financial risks are related to the financial health and stability of the organization.

Question 35:

Scenario: A project manager is updating the risk register to include new risks identified during a project review meeting. Which step in the risk management process does this activity belong to?

- A. Risk Treatment
- B. Risk Monitoring and Review
- C. Risk Identification
- D. Risk Evaluation

Correct Answer: C. Risk Identification

Detailed Explanation:

- **A: Incorrect.** Risk treatment involves deciding and implementing measures to address risks.
- **B: Incorrect.** Risk monitoring and review involve tracking and evaluating the effectiveness of risk management measures over time.
- **C: Correct.** Updating the risk register with new risks is part of the risk identification process, where all potential risks are documented and described.
- **D: Incorrect.** Risk evaluation involves prioritizing risks based on their analysis against criteria.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Question 36:

Scenario: An organization identifies a significant risk in its production process that could cause major delays. They decide to invest in advanced machinery to mitigate this risk. What type of risk treatment strategy is this?

- A. Risk Avoidance
- B. Risk Reduction
- C. Risk Sharing
- D. Risk Acceptance

Correct Answer: B. Risk Reduction

Detailed Explanation:

- **A: Incorrect.** Risk avoidance would involve discontinuing the risky activity altogether.
- **B: Correct.** Investing in advanced machinery to mitigate the risk of production delays is a risk reduction strategy. It aims to decrease the likelihood or impact of the risk by improving the production process.
- **C: Incorrect.** Risk sharing involves transferring some part of the risk to another party.
- **D: Incorrect.** Risk acceptance means taking no action to change the risk's likelihood or impact and simply accepting it.

Question 37:

Scenario: During a periodic review, an organization finds that a previously low-priority risk has escalated in both likelihood and potential impact. What is the most appropriate action?

- A. Implement immediate mitigation measures.
- B. Continue monitoring the risk without any changes.
- C. Ignore the changes and maintain the current approach.
- D. Re-evaluate the risk and update the risk management plan accordingly.

Correct Answer: D. Re-evaluate the risk and update the risk management plan accordingly.

Detailed Explanation:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **A: Incorrect.** Immediate mitigation might be necessary, but it should follow a thorough re-evaluation.
- **B: Incorrect.** Continuing to monitor without action may leave the organization exposed.
- **C: Incorrect.** Ignoring the changes is not advisable as it disregards the new information and potential increased threat.
- **D: Correct.** Re-evaluating the risk with updated information ensures an accurate understanding of its current status. Updating the risk management plan to reflect this new evaluation helps in determining the appropriate mitigation measures and resource allocation.

Question 38:

Scenario: A company wants to ensure that risk management practices are consistently applied across all departments. Which ISO 31000:2018 principle supports this objective?

- A. Risk management is an integral part of all organizational processes.
- B. Risk management is based on the best available information.
- C. Risk management is transparent and inclusive.
- D. Risk management is dynamic and responsive to change.

Correct Answer: A. Risk management is an integral part of all organizational processes.

Detailed Explanation:

- **A: Correct.** Integrating risk management into all organizational processes ensures that risk management practices are consistently applied across all departments and functions. This principle promotes a holistic approach where risk management is embedded into the culture and operations of the organization.
- **B: Incorrect.** This principle focuses on using accurate and reliable information for risk management.
- **C: Incorrect.** This principle emphasizes involving stakeholders and maintaining transparency.
- **D: Incorrect.** This principle highlights the importance of adapting to changes and remaining responsive.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

Question 39:

Scenario: A retail company is conducting a PESTLE analysis as part of its risk management process. What is the primary purpose of this analysis?

- A. To evaluate internal operational risks.
- B. To identify external factors that could impact the organization.
- C. To prioritize financial risks.
- D. To document compliance requirements.

Correct Answer: B. To identify external factors that could impact the organization.

Detailed Explanation:

- **A: Incorrect.** PESTLE analysis focuses on external factors, not internal operational risks.
- **B: Correct.** PESTLE analysis examines Political, Economic, Social, Technological, Legal, and Environmental factors that could affect the organization. It helps in identifying and understanding external risks and opportunities.
- **C: Incorrect.** While financial risks may be considered, the primary purpose is to look at a broader range of external factors.
- **D: Incorrect.** Compliance requirements might be part of the legal aspect, but PESTLE is broader and not solely focused on compliance.

Question 40:

Scenario: An organization decides to engage its employees in the risk management process by encouraging them to report potential risks. Which principle of ISO 31000:2018 does this practice align with?

- A. Risk management creates and protects value.
- B. Risk management is part of decision-making.
- C. Risk management is transparent and inclusive.
- D. Risk management explicitly addresses uncertainty.

Correct Answer: C. Risk management is transparent and inclusive.

Detailed Explanation:

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

- **A: Incorrect.** This principle focuses on the overall value and benefits provided by risk management.
- **B: Incorrect.** This principle ensures risk management is integrated into decision-making processes.
- **C: Correct.** Transparency and inclusiveness involve engaging all relevant stakeholders in the risk management process. Encouraging employees to report potential risks fosters an open and inclusive environment where everyone contributes to identifying and managing risks.
- **D: Incorrect.** This principle emphasizes managing uncertainty, not necessarily inclusiveness.

This material is exclusively for GSDC members and cannot be distributed, sold, or reproduced.

About GSDC

What's the main key point to stand at the top of your career ladder as an IT professional? It is investing in acquiring new skills continuously and getting upskilled in them at a regular interval. If you put an end to learning new technologies in this ever-evolving world, your career scopes won't broaden at all.

Wondering where can you get your certification done from?

The Global Skill Development Council (GSDC) is an independent, vendor-neutral, international credentialing and certification organization for emerging technologies like Blockchain, Six Sigma, DevOps, Cloud, AI-ML, ISO, Agile, and L&D professionals.

- *GSDC's Advisory board members and SMEs are from around the world, drawn from different specializations.*
- *GSDC is supported by the world's most esteemed thought leaders, deans, chairs, professors, and academic affiliates from such prestigious universities as Yale, MIT, Stanford, Wharton, and Harvard.*
- *GSDC has a wide range of certifications curated and handpicked by world-renowned experts that triggers you to board on the knowledge ride of tech explorations.*
- *GSDC Council is a membership organization dedicated to growing, enhancing & certifying the skill within the tech Community*

Get 40% Off

GSDC's ISO 31000:2018 Risk Manager Certification Program

Step 1: Copy Below Discount Code

Step 2: Go to our Certification Program Here

Step 3: Apply the Discount Code and Complete the Payment



Claim Now

TOOLKIT40