

# GSDC Digital Transformation Officer



Certified Digital Transformation Officer Certification is for those who aspire to a career in the area of Digital Transformation or are already working in that field but looking for career up-gradation.

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## ABOUT CERTIFICATION

Digital Transformation is a field that denotes the gap between the company's success and the success the company could have had by utilizing digitization. In this digital era, organizations are on a heavy lookout for Digital Transformation Officers. Hence, this Digital Transformation Officer certification can easily make your career rise at the speed of light by introducing you to the entire Digital Transformation Roadmap.

GSDC's Certified Digital Transformation Officer gives learners an in-depth understanding of the process and technologies such as Cloud computing, DevOps Practitioner, Agile Scrum Methodologies, Cyber Security and Data Science to meet changing business needs and to improve the business processes.

Digital Transformation Officer is someone who is responsible for projects with the main goal of broadening the opportunities available by implementing new digital channels, technologies, and products. They are also the ones who craft the digital strategy for their organization. In a traditional manner, everyone works in silos and generate value to the business by depending on their own understanding.

## Our Accreditation:



The Global Skill Development Council (GSDC) is the leading third-party, Vendor neutral, international credentialing and certification organization. The Global Skill Development Council (GSDC) is proud to be ANSI Accredited Member. The American National Standards Institute (ANSI) is a private, non-profit organization that administers and coordinates the U.S. voluntary standards and conformity assessment system.

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# COURSE SYLLABUS

## ASF

### 1. Agile Scrum Foundation - Introduction:

- Introduction to Agile and Scrum Foundation Preview
- Agenda Preview
- Why Agile? Preview
- Course Objectives
- Target audience/li>
- Traditional Development
- Problems with traditional software development
- Usage of features in a system
- Makings of a new approach
- Agile Manifesto
- Principles behind the Agile Manifesto
- Principles behind the Agile Manifesto Contd
- Authors of the Agile Manifesto
- Agile Project Management
- Agile Project Management Life cycle
- Agile Project Management Framework
- APM Framewor
- What is Scrum?
- Certified Scrum Master
- Professional Scrum Master
- PMI-ACP

### 2. Agile Scrum Methodologies:

- Agile methodologies
- Agenda
- Agile Methodologies
- Crystal
- Project Properties in Crystal
- Samples of Crystal
- Feature Driven Development
- Roles in FDD
- Processes in FDD
- Project tracking in FDD
- Project tracking methodology
- FDD usage guidelines
- Dynamic Systems Development Methodology DSDM
- Planning in DSDM Atern
- DSDM Principles and techniques
- eXtreme Programming
- XP Values
- XP Practices
- XP Benefits
- Agile Unified Process
- Agile Unified Process AUP
- Agile Unified Process System Development
- Scrum
- Scrum Life cycle

### 3. Scrum Roles:

- Scrum Roles
- Agenda
- Stakeholders
- Chicken and Pig roles
- Management of stakeholders
- Scrum life cycle
- Product Owner
- Product Owners role
- Prioritization
- Cost Benefit Analysis
- Prioritization based on Value and Risk
- Prioritizing requirements MoSCoW
- Prioritizing requirements Kano model
- Prioritizing requirements Relative weighting method
- Scrum life cycle
- Scrum Master
- What does a Scrum Master Do
- What the Scrum Master Should NOT do
- Scrum life cycle
- The team aka Developers
- Building a Scrum team
- Building empowered teams
- Role of a Manager
- Manager 2.0: A new role for a Manager
- Some specialist roles you may want

### 4. Agile Scrum Ceremonies:

- Scrum Ceremonies
- Agenda
- Time boxing
- Advantages of time boxing
- Release
- High level view of a release
- Sprints
- Factors in selecting a Sprint duration
- Intensity of work
- No changes in a Sprint
- Daily Scrum
- Sprint Review
- Also check during a review
- Sprint Retrospective
- What is a Sprint Retrospective
- Making retrospectives effective

### 5. Scrum Artificats:

- Scrum Artifacts
- Agenda
- Product backlog
- Product release and sprint backlog

# COURSE SYLLABUS

## ASF

- User story
- Example user story formal
- Story card information
- Multiple stories may be required to complete a feature
- Epics
- Writing good stories
- Splitting user stories
- Splitting user stories (big picture)
- Splitting user stories (user experience)
- Splitting user stories (Others)
- Configuration management
- Quality in Agile
- Scrum Quality Home truths
- Planning for a Sprint
- Test driven development
- Advantages of TDD
- Definition of Done
- Quiz
- End of this session

### 6. Scrum Best Practices:

- Scrum Best Practices
- Agenda
- Refactoring
- Pair programming
- Continuous integration
- Practices of continuous integration

### 7. Scrum Planning:

- Scrum Planning
- Agenda
- Principles behind Agile planning
- Iterations allow for mid course corrections
- Multiple levels of planning
- Release planning
- Steps to planning a release
- Velocity
- An example with velocity equal 14
- Sprint planning
- Velocity driven sprint planning
- Commitment driven sprint planning
- Find out how much time is available
- For each story
- Keep in mind before finalizing the plan

### 8. Scrum Estimation:

- Scrum Estimation
- Agenda
- Principles behind Scrum estimation
- Estimation techniques
- Types of estimates

- Uncertainty in estimates
- Over estimation and under estimation
- What contributes to size
- Measures of size
- Ideal days
- Converting ideal days to actual days
- Story points
- Story points example
- Using story points
- Comparing the approaches
- Estimation techniques Planning poker
- Planning poker an example
- Planning poker tips
- Advantages of planning poker
- Affinity estimation
- Affinity estimation process

### 9. Monitoring Scrum Projects:

- Monitoring Scrum Projects
- Agenda
- Definition Metrics
- Types of metrics
- Metrics do's and don'ts
- Charts in Scrum
- Burn-down chart: Iteration level
- Burn-down chart Project level
- Burn-down chart Bar style
- Burn-up and Burn down-chart
- Cumulative Flow Diagram
- Parking lot diagram
- Escaped defects found
- Velocity chart
- Progress Chart
- Niko Niko calendar
- Information radiators
- Information radiators: Big visible chart

### 10. Advanced Scrum Concepts:

- Scrum Advanced
- Agenda
- Scrum on large projects
- Look ahead planning Sample
- Scrum of Scrum
- Product coordination teams
- Scrum on maintenance projects
- Distributed scrum teams
- Best practices in distributed scrum
- Structure 1 Team in India PO in US
- Structure 2 Team split in two locations
- People practices in distributed Scrum
- Practices in distributed scrum
- Scrum Contracting

- Fixed Price fixed scope
- Scrum in fixed price projects
- Transitioning a team or project to Scrum

## CDP

### 1. Introduction to DevOps:

- History of DevOps
- What is DevOps?
- DevOps Ecosystem
- DevOps Objectives
- DevOps Market Trends

### 2. Challenges with Current IT Practices:

- Development & Feedback Cycle
- Innovation & Collaboration
- Deployment Failures
- Recovery & Rollback Time
- Total Cost of Ownership
- Process Inefficiencies

### 3. DevOps Principles:

- Understanding DevOps Guiding Principles
- Importance of Collaborative Culture
- Cross-Functional Team Structure
- Automation

### 4. Organizational Considerations for DevOps Adoption:

- Embracing DevOps Mindset
- Iterative Adoption
- Business Goals

### 5. Role of DevOps in Digital Transformation:

- Understanding Digital Transformation
- Why does digital transformation matter?
- Importance of DevOps in Digital Transformation

### 6. DevOps Culture:

- Organizational Change
- Breaking the Silos
- Team Structure

### 7. DevOps and Automation:

- Version Control
- Continuous Integration
- Continuous Testing
- Configuration Management
- Continuous Deployment
- Containerization
- Continuous Monitoring

### 8. DevOps and Other Processes:

- ITSM
- Agile
- Scrum
- Lean

## CCF

### 1. A brief overview of Cloud Computing:

- An Overview of Cloud Computing
- Advantages of utilizing the Cloud
- The five key characteristics of Cloud Computing according to NIST
- The three Cloud service models defined by NIST
- The four different Cloud deployment models outlined by NIST

### 2. Adopting the Cloud:

- Major factors influencing the adoption of cloud computing solutions
- Assessing obstacles and challenges associated with cloud computing
- An Overview of Considerations for designing cloud applications
- Gaining insights into the impact of big data
- Grasping the life-cycle of cloud applications
- Explaining the fundamental principles of cloud automation and testing
- Leveraging the Potential of Shadow IT

### 3. Harnessing the Potential of Software as a Service (SaaS):

- Defining the Nature of SaaS
- Contrasting different service scenarios
- Examining the technologies behind SaaS

### 4. Providing Platform as a Service (PaaS):

- Investigating the underlying technical infrastructure of PaaS
- Constructing services using solution stacks
- Overseeing cloud storage management
- Utilizing support services

### 5. Implementing Infrastructure as a Service (IaaS) :

- Empowering technologies
- Gaining access to IaaS

### 6. Developing a Business Case:

- Grasping the extent and objective of a cloud action plan
- Choosing a suitable cloud partner and executing a successful trial phase
- A comprehensive comprehension of stakeholder management to optimize the success of cloud deployment
- Assessing the financial considerations
- Ensuring business continuity

### 7. Transitioning to the Cloud:

- Factors to consider from a technical perspective



# CCSF

## 1. Introduction to Cyber Security Management

- Concepts and definitions
- Benefits and requirements of Cyber security

## 2. Introduction to Information Risk Management

- Information risk management terminology
- Risk management in the business context
- Information risk management fundamentals

## 3. Introduction to Business Continuity Management

- Need for business continuity management
- Business continuity management in the business
- Business continuity lifecycle

## 4. Cyber Security Architecture

- Concepts of Cyber Security Architecture
- The Role of a Security Architect
- Security Design Principles

## 5. Soft Skills and Incident Management

- Topics and Learning Outcomes
- Engagement lifecycle management
- Advantages and utility of incident response to the client.
- Awareness potential incidents.
- Organizational frameworks for incident response activities encompass pertinent protocols and procedures.
- Understanding limitations of system logs.
- Timelines to analyse event data
- Time zone issues
- System interpretation of timestamps with images

## 6. Law & Compliance

- Regulation of Investigatory Powers Act 2000
- Criminal Justice Act 2008
- Protection of Children Act 1978
- Computer Misuse Act 1990
- Human Rights Act 1998
- Data Protection Act 1998
- Police and Justice Act 2006
- Sexual Offences Act 2008
- Engaging law enforcement
- CERTS and their role and jurisdiction



# CDSP

## 1. Data Science Introduction

## 2. Probability and statistics for data science

## 3. Working with Big Data

## 4. Data extraction and visualization techniques

## 5. Data Mining and Machine Learning

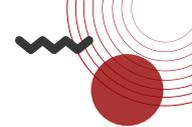
## 6. A statistical approach for data science

## 7. Text Mining & NLP

## 8. Data Visualization using Tableau

## 9. Data Visualization using Tableau





## GSDC Technical Advisory Board :



The GSDC is the leading certification association which brings together innovative organizations and founding thought-leaders as Technical Advisors from over 40 countries to design curriculum on Blockchain, Devops, Six Sigma & Agile Certifications.

Find out more online at  
[www.gsdccouncil.org](http://www.gsdccouncil.org)

