

# Certified Agile Scrum (ASF) Foundation



With a focus on Agile principles, the Agile Scrum certification equips you with the necessary skills to effectively collaborate, adapt, and deliver high-quality projects using Agile Scrum frameworks.

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## ABOUT CERTIFICATION

GSDC Certified Agile Scrum Foundation certification is designed to validate your knowledge and understanding of Agile Scrum methodologies. Agile Scrum certification demonstrates your proficiency in Agile and Scrum practices, making you a valuable asset in today's rapidly evolving business environment.

The GSDC Certified Agile Scrum Foundation provides a solid foundation for individuals seeking to enhance their career prospects and contribute to the success of Agile-driven organizations. By obtaining this Agile foundation certification, you gain recognition for your expertise in Agile Scrum and become equipped to lead teams, enhance productivity, and deliver customer-centric solutions.

Stay ahead in the competitive job market with the GSDC Certified Agile Scrum Foundation, the agile certification that empowers you to thrive in the ever-changing technology landscape.

## OBJECTIVES

1. Effectively understand Agile and Scrum techniques.
2. Effectively collaborate and communicate within Agile teams.
3. To improve project delivery, use agile concepts.
4. Adapt to shifting demands while providing value.
5. Learn the principles of Agile Scrum.
6. Boost productivity with efficient Agile techniques.
7. Utilise Agile frameworks to deliver customer-centric solutions.

## 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

## 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 Artifacts:

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

## 6. Scrum Best Practices:

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

## 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

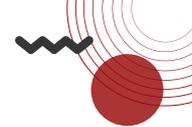
- Story points
- Story points example
- Using story points
- Comparing the approaches
- Estimation techniques Planning poker
- Planning poker an example
- Planning poker tips
- Advantages of planning poker
- Affinity estimation
- Affinity estimation process

## 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



# 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.

## Our Future Information **Target Audience**

- Professionals working (or beginning to work) in Agile environments
- Project managers
- Software developers
- IT Service Management Professionals
- Business managers
- Professionals interested in developments in IT and Project Management

## **Pre-requisites**

Service Management or ITIL knowledge is recommended for this particular certification.

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

