

## CERTIFIED AGILE SCRUM FOUNDATION (ASF)

[www.gsdcouncil.org](http://www.gsdcouncil.org) / [info@gsdcouncil.org](mailto:info@gsdcouncil.org)

**GSDC is Globally accredited Agile Scrum Foundation certification validates your knowledge in Agile methodologies and Scrum practices.**



### ABOUT CERTIFICATION

GSDC is Globally accredited Agile Scrum Foundation certification validates your knowledge in Agile methodologies and Scrum practices. Agile methodologies are popular approaches in software development, while Scrum practices include software development by cross-functional and self-managed teams, producing working code at the end of each iteration or sprint.

You will become Scrum-qualified, enhancing your ability to develop and deliver high-quality products and apply Scrum concepts on the job is specially designed to shape your professional knowledge for Agile Methodologies and Scrum Practices. It is especially useful for those leading or participating in projects. This certification is especially interesting for professionals who work in areas including project management, software development, IT service management and business management.

### OBJECTIVES

#### Clear understanding of

- Understand the concepts of Agile and Scrum including the "Agile way of thinking."
- To Learn Scrum practices including roles, events, the importance of backlog.
- Knowledge of the philosophy behind Agile and Scrum.
- Insight into the division of responsibilities between the business and IT, and within Scrum teams.
- Exploring various agile methods.
- How to do Scrum planning and estimation.
- How to Monitoring of Scrum projects.
- Learn to estimate Kanban boards and Information Radiators.
- How to implement Agile Environment in Complex Projects.
- How to create an Agile workspace.

### 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.

# COURSE SYLLABUS

## 1. Agile Scrum Foundation - Introduction :

- Introduction to Agile and Scrum Foundation Preview
- Agenda Preview
- Course Objectives
- Traditional Development
- Problems with traditional software development
- Usage of features in a system
- 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 Framework
- What is Scrum?
- Certified Scrum Master
- Professional Scrum Master
- PMI-ACP
- About this tutorial
- Quiz
- End of this session

## 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
- Quiz
- End of this session

## 3. Scrum Roles :

- Scrum Roles
- Agenda
- Stakeholders
- Chicken and Pig roles
- Management of stakeholders
- Scrum life cycle
- Product Owner
- Product Owners role
- Product Owners role
- Prioritization
- Cost Benefit Analysis
- Prioritization based on Value and Risk
- Prioritizing requirements MoSCoW
- Prioritizing requirements Kano Model
- 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
- Quiz
- End of this session

## 4. Agile Scrum Ceremonies :

- Scrum Ceremonies
- Agenda
- Time boxing
- Advantages of time boxing
- 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
- Quiz
- End of this session

## 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)
- Quiz
- End of this session

## 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
- 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
- Quiz
- Thank you

## 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
- Quiz
- End of this session

## 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
- Quiz
- End of this session

## 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
- Quiz
- End of this session



## 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.

## Further 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.

### Certification Available:

- Ethereum developer
- Blockchain Architect
- Hyperledger Developer

### You may also be interested in:

- Lean Six Sigma
- DevOps Practitioner

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