

Scrum Developer Certified (SDC®)

Course Outline

Chapter 1: Introduction

- **Scrum Overview:** Introduction to Scrum framework, its relevance in Agile methodologies.
- **Scrum Principles:** Key guiding principles such as Empirical Process Control, Self-Organization, and Time Boxing.
- **Scrum Aspects:** Aspects like Organization, Business Justification, and Change.
- **Scrum Processes:** Understanding Scrum's iterative processes.
- **Scrum Summary:** Recap of core concepts and their integration.
- **Scrum Advantages:** Benefits of implementing Scrum in projects.

Chapter 2: Organization

- **Core Roles:**
 - **Product Owner:** Manages the product backlog and maximizes value.
 - **Scrum Master:** Facilitates the team and removes impediments.
 - **Scrum Team:** Cross-functional group responsible for delivering the product.
- **Non-core Roles:** External stakeholders or contributors not directly involved in Scrum processes.

Chapter 3: Business Justification

- **Responsibilities of Scrum Roles in Business Justification:** Roles in ensuring project value.
- **Factors used to Determine Business Justification:** Evaluating the need and ROI.
- **Business Justification Evaluation Techniques:** Techniques like NPV, ROI, and Payback Period.
- **Tools for Planning Value:** Tools to map and prioritize value delivery.
- **Continuous Value Justification:** Ongoing validation of the project's worth.
- **Summary of Responsibilities:** Role-based responsibilities for maintaining business justification.

Chapter 4: Quality

- **Quality Defined:** Overview of quality standards in Scrum.
- **Acceptance Criteria and the Prioritized Product Backlog:** Ensuring quality via backlog.
- **Quality Management in Scrum:** Integration of quality within Scrum processes.
- **Quality Planning:** Approaches for quality-focused planning.
- **Continuous Integration and Sustainable Pace:** Techniques for maintaining consistent quality.
- **Quality Control and Quality Assurance:** Methods of validation and verification.
- **Summary of Responsibilities:** Role in maintaining project quality.

Chapter 5: Change

- **Unapproved and Approved Change Requests:** Handling change requests.

- **Change in Scrum:** Adaptation of change in Scrum.
- **Balancing Flexibility and Stability:** Managing changes without affecting team performance.
- **Achieving Flexibility:** Strategies for implementing changes efficiently.
- **Changes to a Sprint:** Managing changes mid-sprint.
- **Impact of Expected Change on the Length of Sprint:** Understanding the effect of change.
- **Managing Changes through Prioritized Product Backlog Grooming:** Regular backlog updates.
- **Managing Changes During Demonstrate and Validate Sprint:** Review changes during sprint demos.

Chapter 6: Risk

- **What is Risk?:** Definition and types of risks in projects.
- **Risks and Issues:** Difference between risks and actual problems.
- **Risk Management Procedure:** Process for identifying and managing risks.
- **Risk Identification:** Techniques for discovering potential risks.
- **Risk Assessment:** Evaluation of risk impact and likelihood.
- **Risk Assessment Techniques:** Tools and methods for risk evaluation.
- **Risk Mitigation:** Strategies to reduce risk.
- **Risk Communication:** Ensuring risk-related transparency.
- **Minimizing Risks through Scrum:** Scrum's role in reducing project risks.
- **Summary of Responsibilities:** Role of team members in risk management.

Chapter 7: Introduction to Scrum Project Phases

- Overview of Scrum's project lifecycle phases.

Chapter 8: Initiate Phase

- **Process 1:** Create Project Vision
- **Process 2:** Identify Scrum Master and Stakeholder(s)
- **Process 3:** Form Scrum Team
- **Process 4:** Develop Epic(s)
- **Process 5:** Create Prioritized Product Backlog
- **Process 6:** Conduct Release Planning

Chapter 9: Plan and Estimate Phase

- **Process 1:** Create User Stories
- **Process 2:** Approve, Estimate, and Commit User Stories
- **Process 3:** Create Tasks
- **Process 4:** Estimate Tasks
- **Process 5:** Create Sprint Backlog

Chapter 10: Implement Phase

- **Process 1:** Create Deliverables
- **Process 2:** Conduct Daily Standup
- **Process 3:** Groom Prioritized Product Backlog

Chapter 11: Review and Retrospect Phase

- **Process 1:** Convene Scrum of Scrums
- **Process 2:** Demonstrate and Validate Sprint
- **Process 3:** Retrospect Sprint

Chapter 12: Release Phase

- **Process 1:** Ship Deliverables
- **Process 2:** Retrospect Project

Chapter 13: Scaling Scrum

- **Scalability of Scrum:** Applying Scrum to larger projects and organizations.
- **Transition to Scrum:** How to shift from traditional methodologies to Scrum.
- **Resistance to Change:** Managing resistance during Scrum adoption.
- **Mapping Traditional Roles to Scrum:** Role adaptation from other methodologies.
- **Importance of Executive Support:** The role of leadership in Scrum success.