# scrum Developer Certified (SDC®)

**Content**

## 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.