



Consulting and Training | Reach New Heights

Course Name

Solution Development Lifecycle

Sector Name

Maintenance & Reliability Management

Document Type

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Solution Development Lifecycle

Course Introduction

Optimizing maintenance costs is essential for improving profitability and efficiency in any The Solution Development Lifecycle (SDLC) is a structured approach to creating and delivering solutions that meet business and user needs. Understanding the SDLC is essential for ensuring successful project outcomes, minimizing risks, and managing resources effectively throughout the solution development process.

This training program covers each phase of the SDLC, from requirements gathering to design, development, and deployment. Participants will learn how to apply best practices in each stage, ensuring solutions are high-quality, aligned with business goals, and deliver maximum value. Emphasis is placed on the importance of stakeholder collaboration, effective testing, and post-deployment maintenance for long-term success.

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Target Audience

This course is designed for project managers, business analysts, developers, and anyone involved in the development and delivery of solutions within an organization.

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Solution Development Lifecycle

Learning Objectives

- ✓ Understand the key stages and processes in the Solution Development Lifecycle.
- ✓ Learn how to effectively gather and analyze requirements for solution design.
- ✓ Gain insights into designing scalable, secure, and efficient solutions.
- ✓ Understand the development and implementation phases, including best practices.
- ✓ Learn how to test, deploy, and maintain solutions while ensuring continuous improvement.

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Solution Development Lifecycle

Course Outline

✓ **01 DAY ONE**

Introduction to the Solution Development Lifecycle

- ✓ Understanding the Solution Development Lifecycle (SDLC)
- ✓ Key phases of the SDLC
- ✓ The role of SDLC in solution design and delivery
- ✓ Benefits of using a structured development process
- ✓ Overview of SDLC models (Waterfall, Agile, DevOps, etc.)
- ✓ How SDLC aligns with business needs and objectives
- ✓ The importance of stakeholder engagement in SDLC

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Course Outline

✓ 02 DAY TWO

Requirements Gathering and Analysis

- ✓ Importance of requirements gathering in the SDLC
- ✓ Techniques for collecting requirements (interviews, surveys, workshops)
- ✓ Types of requirements: functional, non-functional, and technical
- ✓ Prioritizing and validating requirements
- ✓ Creating user stories and use cases
- ✓ Analyzing requirements for feasibility and alignment
- ✓ Documenting and communicating requirements effectively

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Course Outline

✓ **03 DAY THREE**

Design and Architecture

- ✓ Overview of solution design in SDLC
- ✓ Creating system architecture and design specifications
- ✓ Key design principles (modularity, scalability, maintainability)
- ✓ Designing for security and performance
- ✓ Tools and methodologies for solution design
- ✓ Prototyping and wireframing in the design phase
- ✓ Ensuring stakeholder feedback is integrated into the design

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Course Outline

✓ **04 DAY FOUR**

Development and Implementation

- ✓ Transitioning from design to development
- ✓ Key steps in the development phase (coding, unit testing)
- ✓ Best practices for code quality and version control
- ✓ Agile development practices and their role in SDLC
- ✓ Collaboration between development teams and stakeholders
- ✓ Managing risks and challenges during development
- ✓ Deploying solutions and ensuring readiness for implementation

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Course Outline

✓ 05 DAY FIVE

Testing, Deployment, and Maintenance

- ✓ Importance of testing in the SDLC
- ✓ Types of testing: functional, integration, and performance testing
- ✓ Deployment strategies (phased, big bang, etc.)
- ✓ Post-deployment monitoring and maintenance
- ✓ Handling feedback and issues after deployment
- ✓ Continuous improvement in the SDLC

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 27, 2026	Oct. 1, 2026	5 days	4250.00 \$	KSA , Riyadh
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
April 26, 2027	April 30, 2027	5 days	4950.00 \$	England , London
Nov. 30, 2026	Dec. 4, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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