

KOENIG SOLUTIONS • COURSE OUTLINE

Software Development Life Cycle (SDLC)

6

MODULES

36

TOPICS

LEARNING OBJECTIVES

- Explain the purpose and importance of SDLC
- Compare SDLC models such as Waterfall, Agile and Spiral
- Identify activities involved in project initiation and planning
- Apply coding standards and conduct code reviews
- Describe building and continuous integration practices
- Plan test strategies and execute test cases
- Evaluate deployment strategies and rollback plans
- Assess post-deployment maintenance and SDLC best practices

6 Modules, 36 Topics

01

Understanding SDLC

WHAT IS SDLC?

Definition and purpose · Importance in software development

KEY SDLC MODELS

Waterfall model · Agile model · Iterative model · V model · Spiral model

02

Planning Phase

PROJECT INITIATION

Gathering requirements · Feasibility study · Defining objectives and scope

PROJECT PLANNING

Creating a project plan · Risk assessment and management · Resource allocation

03

Implementation Phase

DESIGN AND DEVELOPMENT

System design · Coding standards and best practices · Code reviews

BUILDING AND INTEGRATION

Building the software · Integration testing · Continuous integration

04

Testing Phase

TYPES OF TESTING

Unit testing · Integration testing · System testing · User acceptance testing · Regression testing

TEST PLANNING AND EXECUTION

Test strategy · Test cases and scenarios · Test automation

05

Deployment Phase

DEPLOYMENT STRATEGIES

Manual deployment · Automated deployment · Rollback plans

06

Maintenance and Conclusion

POST DEPLOYMENT MAINTENANCE

Bug tracking and fixing · Performance monitoring · Security updates

SDLC BEST PRACTICES

Reviewing the entire SDLC process · Continuous improvement · Case studies and real-world examples

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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