

[PTP]: Professional Testing Processes

Length : 2 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

This course is appropriate for anyone wanting to get a good understanding of best practice testing processes. You will learn practical and flexible techniques for testing software that are applicable at any level of testing.

Professional Testing Processes (PTP) is one of Planit's flagship courses, exploring a structured approach to test analysis and design based on accepted industry standards. Participants' learning experience is enhanced, by walking through the testing process in a practical, hands-on manner.

Deconstructing key activities in the testing process, you'll become expert in the fundamentals of professional testing, from requirements to test preparation, test execution, test management and reporting.

Learning combines a mixture of theory with exercise and includes a comprehensive review of a case study that covers the full test cycle.

Professional Testing Processes gives you real-world capabilities in testing that you can take back to the workplace and use straight away for accurate and accelerated test results.

Audience Profile

- Testers wanting to formalise and improve their testing techniques.
- Prospective testers wanting to gain hands-on testing skills to leverage in their new career.
- Anyone involved in software projects wanting to gain a good understanding of best practice testing processes.

At Course Completion

- Acquire an adaptable framework for software testing anywhere.
- Understand the role of testing in the SDLC.
- Define and implement a professional approach to testing across small and large projects.
- Perform functional decomposition and risk analysis of the system under test.
- Perform an effective review of system documentation.
- Define and prioritise test criteria.
- Work with test scripts using a variety of techniques.
- Interpret test metrics to report on progress, improve process and perform test estimation.
- Identify and manage incidents.
- Gain a working knowledge of how tools are used in the test process.

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Assessment

There is no assessment requirement for this course.

Course Outline**Module 1: Testing Fundamentals****Lessons**

- What is testing?
- Definitions – what does it all mean?
- When should we test and how much is enough?
- SDLC models
- Why is web testing different?
- Cost escalation model
- Error detection in the SDLC
- The test process

Module 2: The System Documentation Review Process**Lessons**

- Types of review
- Review principles
- Benefits of reviews
- Static vs. dynamic testing
- Review process
- Recognising good and bad requirements
- Incremental reviews
- The Test Analysis Process

Module 3: The Test Analysis Process**Lessons**

- The test analysis process
- Identify & review source documents
- Create functional hierarchy
- Identify test conditions
- Cross-reference functions and test conditions to documents
- Test analysis review

Module 4: The Test Design Process**Lessons**

- Create test specification hierarchy
- Create detailed test scripts
- Cross-reference test conditions to test scripts
- Test design review

Module 5: The Test Schedule Process**Lessons**

- Create test suite hierarchy

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- Schedule test scripts
- Test schedule review

Module 6: The Test Execution and Evaluation Process**Lessons**

- Update tested conditions
- Create test log
- Report on progress
- Manage and control

Module 7: The Incident Management Process**Lessons**

- Identification of incidents
- Cause of failure
- Impact of failure
- Incident attributes
- Grading incidents
- The incident lifecycle
- Managing incidents

Module 8: Test Metrics**Lessons**

- Metrics – what are they used for?
- To report on progress
- Process improvement
- Estimation
- Metrics and management
- Problems with metrics

Module 9: Test Support**Lessons**

- What is a Tool?
- Tool usage in the SDLC
- Requirements, design and modelling tools
- Developers tools facilitating code creation
- Tools for physical testing
- Tools for system testing data preparation
- Management tools

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