

COURSE OVERVIEW – PRACTICAL TEST ANALYST

It often happens that once a testing resource has completed a non-certified testing course that they are only equipped with book knowledge and no practical experience.

The Practical Test Analyst Course is specifically designed to provide testing resources with sufficient practical experiences that are industry related. The course is structured in such a way that it allows interactive class discussions on real-life testing situations experienced on a day-to-day basis. The course delegate (and the company) will benefit from this course, as standard methodologies and artifacts are reviewed and compared with the delegate's own working environment. Taking this into consideration, the delegate will be sufficiently equipped to improve not only their own but also the company's operational methodologies, test ware and test deliverables.

By attending the course, the delegate will receive a certificate to prove attendance of the course.

As an additional option, evaluation and feedback can form an integral part of this training course. All the exercises completed are marked and evaluated by the course presenter. Two weeks after the course, or a time period mutually agreed upon, a follow-up session will be held with each delegate. During this one-on-one session, the exercises handed in will be discussed and any shortcomings will be addressed accordingly. A summarized report will be presented to the delegate's manager, highlighting their individual strengths and weaknesses.

Should the delegate not meet the learning objectives, follow up training and mentoring can be arranged. The evaluations, feedback, follow up training and mentoring will be available at an additional cost.

Who should attend this course

- Testers
- Junior to mid-level Test Analysts
- Test Managers – to understand what value your Test Analyst can add to your project
- IT Professionals that closely collaborate with Test Analysts and who need to understand the role of a Test Analyst

Pre-requisites

- At least 6 months of testing experience OR
- IT background with an understanding of the software development lifecycle

Course objective

At the end of this course the attendees will be able to:

- Write Test Plans
- Do requirement management
- Identify the best test design techniques to apply to various test types
- Applying test design techniques correctly
- Writing high quality test cases
- Manage defects efficiently and effectively
- Create Test metrics
- Understand the role and responsibility of a Test Analyst

Course Content

- Entry Criteria for being a Test Analyst
- The Test Analyst and the Test Development Life Cycle
- Test Plan
 - Test plans in all shapes and sizes
 - The content of a test plan
 - Student exercise
- Requirement Engineering
 - Introduction to requirements engineering
 - Verification techniques of requirements
 - Reading techniques for reviewers
 - Requirement extract
 - Student exercise
- Test Design Techniques
 - Various test design techniques – the big picture
 - Test techniques - is it necessary
- Equivalence Class Partitioning
 - Identify equivalence classes

- Valid and invalid equivalence classes
- Multiple student exercises

- Boundary Value Analysis
 - Identify boundaries
 - Combine boundaries with equivalence classes
 - Multiple student exercises

- Decision Logic Tables and the Logic behind it
 - Prerequisites for decision logic tables
 - When to use decision logic tables
 - Benefits of decision logic tables
 - Decision logic tables – How to use it
 - Decision logic tables for more complex processes
 - Multiple student exercises

- State Transition Tables
 - When to use State Transition Tables
 - How to complete State Transition Tables
 - The benefits of 0-switch coverage
 - The benefits of 1-switch coverage
 - Multiple Student Exercises

- Test Cases
 - The purpose of Test cases
 - Create High-quality test cases
 - Layout of Test Cases
 - The approach in writing test cases
 - Student Exercise

- Execution of Test Cases
 - The process of test case execution Introduction to requirements engineering

- Defect Management
 - All about Incident logging
 - Guidelines for incident logging



- Analyzing the incidents
 - Defect clustering
 - Incident Reports
 - Test Summary Report
 - Defect Management Process
 - Multiple Student Exercises
- Activities at the end of a project
 - Preservation of test ware
 - Test Process evaluation
 - Test Evaluation Report
 - Test Metrics
 - Various kinds of test metrics
 - Multiple Student Exercises
 - Summary of Test Analyst responsibilities

Please refer to www.impimpitech.co.za for more details