THE LEARNING DEVELOPMENT GROUP

Introduction

This practical, highly interactive short course will give you a comprehensive understanding of the software testing process and the importance of testing at all stages of the software development lifecycle.

It is based on best practice in the software quality assurance environment with a strong focus on the importance of quality in testing, testing roles and responsibilities, testing requirements and using testing tools and techniques effectively.

Customer and business needs result in frequent, even daily, demands for software changes. Rigorous software testing contributes significantly to the value these business systems can deliver.

Target Audience

The programme is aimed at any individual involved in software testing, including Testers, Test Analysts, Systems and Business Analysts and Software Developers.

It is suitable for anyone who needs a deeper appreciation of the software development life cycle and the activities and benefits of testing.

Entry Requirements

There are no specific or strict entry requirements, but we recommend that you have some work experience in a testing, business analysis or IT work environment.

Workplace Requirements

There are no workplace requirements but if you are able to apply and practice the skills learnt on the course to your own job or workplace, this will be an advantage.

Course Delivery & Assessment

We use in-classroom, virtual classroom and blended interactive facilitator-led training sessions, group discussions, practical exercises and feedback sessions to embed knowledge and skills.

Through the experiential approach to learning, you will be able to immediately apply what you learn.

To receive an FTI Certificate of Attendance, you will need to:

- Attend all lectures and sessions.

- Contribute to and actively participate in work simulated activities and in practical exercises and discussions.

- Do some individual reading and self-study.

Learning Outcomes

By the end of the short course, you will have developed a well-rounded understanding of the software testing development lifecycle. You will be able to:

- Explain why quality is essential in all the testing stages of the Software Development Lifecycle.

- Extract requirements and other relevant information from stakeholders, project documentation and other sources.

- Select suitable testing types and techniques based on project focus and expected outcomes.

- Identify, prioritize, plan, create and execute basic test cases, as part of test management.

- Log and manage defects.

- Measure and report on test progress.

- Explain the importance of automation in testing.

- Source and use the most appropriate templates to help you work faster and smarter.

Course **Content**

Fundamentals of Software Quality Assurance Short course

SAQA ID: NA   **| Learning Programme ID: FSQA**
NQF Level: NA   **| Credits : NA**

Module 1
- Quality testing in any Software Development Life Cycle (SDLC)
- Quality Framework
- Testing Concerns
- Testing Maturity
- Phases of Software Testing
- Testing Roles and Responsibilities
- Quality testing in a software development lifecycle
- Tester thinking skills
- Stages of testing
- The different roles and responsibilities of Software Quality Assurers

Module 2
- Different stakeholders and Stakeholder theory
- Understanding Requirements
- Testing Techniques and Test Documentation
- Application of the test process
- Testing as a part of the Project scope
- Timing of testing tasks throughout the SDLC
- Extracting Requirements from project documentation and other stakeholders
- Different test approaches, methods, types and techniques
- Test prioritisation
- Test planning (plan, strategy and approach)
- A hint of test creation

Module 3
- Test Documentation
- Test Case Creation
- Test Case Execution and Reporting
- Defect Management
- Understanding the relevance of test documentation in preparation for Testing
- Creation and execution of test cases.
- The defect management processes
- Test management tools
- Monitoring and measuring progress
- Compiling results and reports
- Automation for regression
- Tester roles in implementation

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