

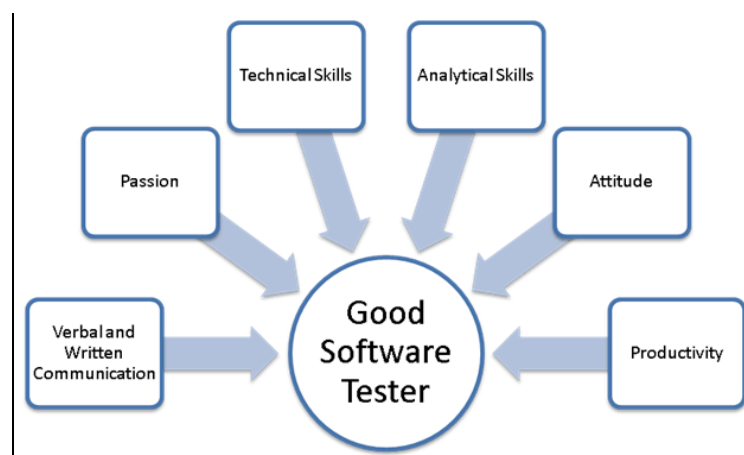
Course Title: Comprehensive Software Testing with Effective Communication and Professional Skills: NQF 5 Credits 35



Course Overview

This course is designed to equip participants with in-depth knowledge and practical skills in software testing, coupled with essential communication and professional attributes. Participants will learn the fundamentals of software testing methodologies, tools, and techniques, while concurrently developing strong communication skills, time management, attention to detail, analytical skills, programming abilities and logical (problem solving) thinking.

Course Duration: 12 weeks



- **Module 1: Introduction to Software Testing**
 - Understanding the importance of software testing
 - Types of testing: manual and automated
 - Basics of test planning and documentation

- **Module 2: Software Development Life Cycle (SDLC) and Testing Life Cycle**
 - Overview of SDLC phases and their relevance to testing
 - Testing life cycle stages and their integration with development phases

- **Module 3: Testing Methodologies**
 - Waterfall model, Agile, and other methodologies
 - Pros and cons of each methodology in relation to testing

- **Module 4: Testing Types and Levels**
 - Functional testing, non-functional testing, and their subtypes
 - Unit testing, integration testing, system testing, and acceptance testing

- **Module 5: Test Case Design and Execution**
 - Writing effective test cases
 - Executing test cases and recording results
 - Defect tracking and reporting

- **Module 6: Test Automation**
 - Introduction to test automation tools
 - Writing and executing automated test scripts

- **Module 7: Communication Skills for Testers**

- Effective verbal and written communication
- Collaborating with development teams and stakeholders
- Documenting and presenting test results

- **Module 8: Time Management and Organization**

- Prioritizing tasks in testing projects
- Creating and maintaining testing schedules
- Time tracking and efficiency improvement

- **Module 9: Attention to Detail**

- Developing a keen eye for details in testing
- Maintaining focus during repetitive tasks
- Identifying and preventing common testing errors

- **Module 10: Analytical Skills in Testing**

- Analyzing requirements and specifications
- Troubleshooting and root cause analysis
- Decision-making in testing scenarios

- **Module 11: Programming Abilities for Testers**

- Introduction to programming languages commonly used in testing (e.g., Python, Java)
- Writing basic scripts for automated testing

- **Module 12: Logical Thinking in Software Testing**
- Developing logical reasoning skills
- Applying critical thinking to testing scenarios
- Problem-solving strategies for testing challenges

Training Methodology

The course is lectured by an accomplished subject matter expert boasting more than two decades of experience in both international and national contexts. The instructional approach revolves around an interactive and participatory method, incorporating role-plays, case studies, workbook activities and group discussions. These elements are strategically employed to foster active engagement and collaboration among the participants.

Assessment and Certification:

Participants will be evaluated through quizzes, assignments and international examinations. Upon successful completion, participants will receive a certificate highlighting their proficiency in software testing and professional skills.

Contact Us:

For further information, kindly contact

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