Course Outline

PREP-COURSE FOR CTFL

Get ready for CTFL today

Introduction

In the era of Industry Revolution 4.0, Software Development and Testing are key skill set needed by many companies and organization across the world. The good news is we have a comprehensive Software Testing Syllabus to develop Software Testing skill set among IT and Software Professionals as well as anyone who are interested to learn this skill set.

In this technical workshop, we will combine the theories of Software Testing as well to provide hands-on practices to ensure participants fully understand and acquired the required skill set. Our experience trainer(s) will also share their industry experiences so that participants can get real life experiences for this workshop.

Objectives

1.Learn the basics needed to become a software test professional and understand how testing fits into the software development lifecycle.
2. Find out what it takes to be a successful software test engineer.
3. Find out how testing can add significant value to software development.
4. Study all of the basic aspects of software testing, including a comprehensive overview of tasks, methods, and techniques for effectively testing software.
5. Learn the fundamental steps in the testing process:

Target Audience

Quality and test professionals, Software programmers, Designers, Developers, Specialists and Project Manager

Duration

4 Days

Training Setup/Methodology

Highly interactive with plenty of opportunities for hands-on practice, coaching and feedback.

Course Outline

Fundamentals of Testing

1. What is Testing?
2. Why is Testing Necessary?
3. Seven Testing Principles
4. Test Process
5. The Psychology Of Testing

Testing Throughout the Software Development Lifecycle

1. Software Development Lifecycle Models
2. Test Levels
3. Test Types
4. Maintenance Testing

Static Techniques

1. Static Testing Basics
2. Review Process

Test Techniques

1. Categories Of Test Techniques
2. Black-Box Test Techniques
3. White-Box Test Techniques
4. Experience-Based Test Techniques

Test Management

1. Test Organization
2. Test Planning And Estimation
3. Test Monitoring And Control
4. Configuration Management
5. Risk and Testing
6. Defect Management

Tool Support for Testing

1. Test tool considerations
2. Effective Use Of Tools

Learning Outcome

At the completion of the course, you will be able to:

▪ Demonstrate practical knowledge of the fundamental concepts of software testing.

▪ Use a common language for efficient and effective communication with other testers and project stakeholders.

▪ Understand established testing concepts, the fundamental test process, test approaches, and principles to support test objectives.

▪ Design and prioritize tests by using established techniques; analyze both functional and non-functional specifications (such as performance and usability) at all test levels for systems with a low to medium level of complexity.

▪ Execute tests according to agreed test plans, and analyze and report on the results of tests.

▪ Write clear and understandable incident reports.

▪ Effectively participate in reviews of small to medium-sized projects.

About Elite Indigo

Elite Indigo Consulting provides corporate training to the semiconductor and manufacturing industries. With a humble beginning of one founding member with passion and desire to share his 20 years of experiences in Smart Manufacturing for global manufacturing facilities, now, we have a strong and competent team of 20 members, all aligned with company mission, vision and core values.

Our Mission

"Transform Data into Insights - Leap Forward"

Our Vision

Be a Global Trusted Advisor in the Areas of Skills Development, Consultancy & Software Solutions specialising in Semiconductor & Manufacturing industries.

Our Core Values