Certified Tester Test Automation Strategy Course

Course Duration: 16 Hrs. **Course Code: CT-TAS**

Course Overview

The **Certified Tester Test Automation Strategy** course is designed for senior testing and quality assurance professionals who are responsible for defining, planning, and governing test automation initiatives. This course focuses on creating effective automation strategies aligned with business goals, development practices, and quality objectives. Participants will learn how to evaluate automation opportunities, select appropriate tools, manage risks, and ensure long-term sustainability of test automation programs.

What You'll Learn?

By completing this course, you will be able to:

- Define and implement a robust test automation strategy
- Align automation initiatives with business and project goals
- Identify suitable test levels and types for automation
- Select and evaluate test automation tools and frameworks
- Manage automation risks, costs, and ROI
- Establish governance, standards, and best practices
- Measure and continuously improve automation effectiveness

Target Audience

This course is ideal for:

- Test Managers and QA Managers
- Test Automation Architects and Leads

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- Senior Test Automation Engineers
- SDETs and Quality Engineering Leaders
- Consultants responsible for automation strategy

Pre-Requisites

Participants should have:

- Strong understanding of software testing fundamentals
- Hands-on experience with test automation tools
- Knowledge of agile and DevOps practices
- Experience in test planning or test management is preferred

Course Content

Module 1: Foundations of Test Automation Strategy

- Purpose and scope of test automation
- Automation strategy vs. automation framework
- Key success factors and common pitfalls

Module 2: Assessing Automation Feasibility and Readiness

- Identifying automation candidates
- Evaluating system and process readiness
- Risk and cost-benefit analysis

Module 3: Tool Selection and Architecture

- Automation tool evaluation criteria
- Framework and architecture considerations
- Open-source vs. commercial tools

Module 4: Implementing and Governing Automation

- Automation standards and guidelines
- Managing automation assets and maintenance
- Roles and responsibilities

Module 5: Integrating Automation with Agile and DevOps

- Automation in CI/CD pipelines
- Continuous testing strategies
- Collaboration across teams

Module 6: Measuring Success and Continuous Improvement

- Automation metrics and KPIs
- ROI measurement and reporting
- Scaling and optimizing automation programs