



Software Testing Essentials: ISTQB Foundation



"Unlock Software Testing Expertise with Upskillment"



UPSKILLMENT



INTRODUCTION

The ISTQB Software Testing Foundation Course is a globally respected program that equips participants with essential knowledge of software testing principles, techniques, and practices. It highlights the importance of testing in delivering high-quality software and explores its role throughout the software development lifecycle.

This course is perfect for professionals aiming to build or enhance careers in testing and quality assurance, offering preparation for the ISTQB Foundation Level certification—an industry-standard credential recognized worldwide. Participants will gain practical insights into modern testing methodologies and tools, enabling them to contribute effectively to software quality assurance in dynamic and evolving work environments.

Duration:- 22 Hours

Mode:- Live Instructor Led Training (Weekdays as well as weekend batches)

Domain 1: Fundamentals of Testing

- Understanding Testing: Learn the role of testing in identifying defects, ensuring software meets requirements, and distinguishing it from debugging.
- Testing's Necessity: Explore how testing contributes to quality assurance, risk mitigation, and the prevention of defects impacting software functionality.
- Testing Principles & Skills: Master key testing principles, including defect clustering, and develop essential skills like attention to detail and effective communication.
- Test Activities and Roles: Understand test processes, testware, traceability practices, and the roles and responsibilities within a testing team.

Domain 2: Testing Throughout the Software Development Lifecycle

- Module 1: Testing in the Context of a Software Lifecycle
 - Understand how testing fits into software development models like Waterfall, Agile, and DevOps.
 - Learn about the Shift-Left approach for early defect detection.
- Module 2: Test Levels and Test Types
 - Detailed insights into unit, integration, system, and acceptance testing.
 - Differentiate between functional and non-functional testing types, including regression and confirmation testing.
- Module 3: Maintenance Testing
 - Understand the specific challenges and practices for maintaining software quality after release.

Domain 3: Static Testing

- Module 1: Static Testing Basics
 - Learn how to identify defects in work products such as requirements, design, and code without execution.
- Module 2: Feedback and Review Processes
 - Master review techniques like peer reviews and walkthroughs for better defect prevention.

Domain 4: Test Analysis and Design

- Module 1: Overview of Test Techniques
 - Introduction to structured test design methods for different scenarios.
- Module 2: Black-box Test Techniques
 - Apply equivalence partitioning, boundary value analysis, and decision table testing with real-world examples.
- Module 3: White-box Test Techniques

Domain 5: Managing Test Activities

- Test Planning: Learn how to create detailed test plans, prioritize tasks based on risk, and align them with requirements.
- Risk Management: Identify and assess product and project risks, and apply mitigation strategies through exercises and examples.
- Monitoring & Control: Track testing progress using metrics, ensuring effective communication of status to stakeholders.

Domain 6: Test Tools and Automation

- Tool Support for Testing: Explore various tools for test management, defect tracking, and performance testing to enhance efficiency.
- Test Automation: Understand the benefits of test automation, its challenges, and how it integrates into continuous testing pipelines.

ISTQB Training Features :

- Flexible Learning and Rescheduling Options
- Tailor your learning schedule with weekday or weekend classes and morning or evening sessions to fit your commitments. Missed a session? Easily reschedule and join a batch that matches your availability.
- Personalized Learning Support
- Benefit from a dedicated Learning Manager who provides personalized guidance, resolves your queries, and supports you throughout the course to ensure a seamless learning experience.
- Practical and Job-Focused Training
- Gain hands-on experience through industry-relevant projects and real-world simulations. Enhance your employability with dedicated job assistance, including resume building, interview preparation, and placement support.

ISTQB Training Outlook

- **Explosive Growth in Demand:** The global software testing market is forecasted to grow from \$40.7 billion in 2023 to \$70.3 billion by 2028, driven by the increasing complexity of software systems and the need for robust quality assurance practices. This surge is supported by the adoption of agile and DevOps models across industries. (Source: Market Research Future)
- **Shift Toward Test Automation & AI:** The rise of AI-driven testing tools is reshaping the industry, with the test automation market projected to reach \$34.1 billion by 2027. AI and automation are enhancing efficiency, reducing manual effort, and enabling faster, more accurate testing. (Source: MarketsandMarkets)
- **Critical Focus on Security Testing:** As cybersecurity threats continue to grow, organizations are increasingly focusing on security testing. The cybersecurity industry is projected to reach \$200 billion by 2025, highlighting the critical role of testers in safeguarding software systems from vulnerabilities. (Source: Statista)

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