Automated Testing for ERP (Selenium / UFT) Training Course

Professional Development Training Course Outline

Category	Enterprise Resource Planning (ERP)	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In the rapidly evolving landscape of enterprise resource planning (ERP) systems, ensuring impeccable quality and system stability is paramount. Traditional manual testing methodologies are proving inadequate to cope with the complexity, scale, and frequent updates inherent in modern ERP applications. This is where Automated ERP Testing steps in as a critical differentiator. Our specialized training, focusing on industry-leading tools like Selenium and Unified Functional Testing (UFT), is designed to equip professionals with the high-demand skills to build sustainable test automation frameworks. Automated Testing for ERP (Selenium / UFT) Training Course emphasizes not just tool proficiency but mastering the application of Data-Driven Testing and Keyword-Driven Frameworks within complex, business-critical ERP environments, dramatically improving test coverage and accelerating the DevOps and Continuous Testing cycles.

The central challenge in ERP implementations and upgrades is the risk of business disruption due to system defects. Implementing an effective ERP Test Automation strategy using tools like UFT and Selenium delivers immense value by enabling rapid, repeatable Regression Testing, which is crucial after patches or customizations. Participants will learn to navigate the unique challenges of ERP, such as handling dynamic objects, managing vast test data, and performing seamless End-to-End Testing across integrated modules. By focusing on Shift-Left Testing principles, this training ensures that quality is built in from the start, leading to faster go-lives, reduced operational costs, and maximized Return on Investment (ROI) in the ERP system. Mastering this domain transforms a QA professional into a high-value Test Automation Engineer indispensable to any large-scale enterprise.

Programme Curriculum

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Course Duration

5 Days

Course Objectives

1. Master Test Automation Strategy for complex, integrated ERP systems.
2. Design and implement scalable Keyword-Driven Frameworks using UFT and Selenium.
3. Execute robust Data-Driven Testing for high-volume ERP data scenarios.
4. Achieve expert proficiency in Selenium WebDriver for web-based ERP interfaces.
5. Develop advanced UFT/QTP scripting techniques using VBScript for desktop and legacy ERP components.
6. Perform seamless Cross-Browser Testing using Selenium for global ERP access.
7. Integrate automated tests into CI/CD Pipelines using tools like Jenkins for Continuous Testing.
8. Implement Object Repository Management best practices for reliable ERP test maintenance.
9. Apply Shift-Left Testing methodologies to identify defects early in the ERP lifecycle.
10. Conduct effective End-to-End Business Process Testing across multiple ERP modules.
11. Troubleshoot and implement Synchronization Points and Error Handling for complex ERP transactions.
12. Utilize Descriptive Programming in UFT to handle dynamic objects unique to ERP screens.
13. Leverage Reporting and Analytics to demonstrate ROI of ERP Test Automation.

Target Audience

1. Manual QA Testers transitioning to Test Automation Engineer roles.
2. ERP Functional Consultants seeking technical skill enhancement.
3. Software Developers involved in in-house ERP customizations or extensions.
4. QA Leads and Managers responsible for defining ERP Testing Strategy.
5. DevOps Engineers focusing on implementing Continuous Testing for enterprise applications.
6. Business Analysts who need to validate and define complex business processes.

7. System Administrators and IT professionals involved in major ERP upgrades or migrations.
8. Recent Graduates in Computer Science or related fields seeking a high-value specialization.

Course Modules

1. ERP Testing Fundamentals & Automation Strategy

- Understanding the ERP Architecture and the impact on testing complexity.
- Defining the Scope of Automation and calculating ROI for ERP projects.
- Deep dive into Test Case Prioritization for complex ERP business processes.
- Introduction to Data-Driven and Keyword-Driven Frameworks architecture.
- Case Study: Developing an automation scope for a major SAP upgrade project.

2. Mastering Selenium for Web-Based ERP

- Setting up the Selenium WebDriver environment with modern programming languages
- Advanced techniques for identifying and handling complex web elements using CSS Selectors and XPath.
- Implementing Page Object Model for scalable and maintainable ERP web tests.
- Handling browser alerts, pop-ups, and multiple windows common in web ERPs.
- Case Study: Automating a full procure-to-pay cycle in a web-based Oracle Cloud ERP.

3. UFT/QTP Essentials and Object Recognition

- Introduction to Unified Functional Testing interface and core features
- Mastering Object Identification techniques.
- Utilizing Shared Object Repository for maximum test script reusability across ERP modules.
- In-depth Descriptive Programming to handle dynamically changing ERP object properties.
- Case Study: Creating a robust UFT test for a highly customized desktop-based SAP GUI transaction.

4. Advanced Test Design: Data & Keyword Frameworks

- Implementing the Keyword-Driven Framework structure for non-technical users to design tests.
- Parameterization using external data sources for Data-Driven Testing.
- Creating Reusable Actions and Functions to model common ERP business steps.
- Designing an executable Driver Script to manage test flow and execution control.
- Case Study: Building a Hybrid Framework to test bulk GL entry in an ERP Finance module using external data.

5. Control Flow, Synchronization, and Error Handling

- Implementing effective Synchronization Points to handle ERP load times.
- Advanced VBScript/Programming Logic for complex process flows.
- Developing robust Error Handling and Recovery Scenarios for unexpected system issues.
- Applying checkpoints and output values for thorough data and object verification.
- Case Study: Developing a recovery scenario for a network error during a critical ERP inventory update.

6. Integration and Cross-Module Testing

- Testing data and process flow across different ERP modules.
- API Testing integration using complementary tools to validate back-end ERP data layers.
- Handling multiple applications and technologies in a single End-to-End ERP test script.

- Techniques for creating and managing test data for Integrated Testing scenarios.
- Case Study: Automating an end-to-end Order-to-Cash process spanning CRM, Sales, and Finance modules.

7. DevOps, CI/CD, and Reporting

- Integrating Selenium/UFT tests with Version Control Systems for collaborative development.
- Setting up test execution in Continuous Integration tools like Jenkins or Azure DevOps.
- Generating comprehensive Test Execution Reports and analytics for stakeholders.
- Risk-Based Testing strategies for prioritizing tests in a fast-paced release cycle.
- Case Study: Configuring a Jenkins job to automatically run regression tests after an ERP patch deployment.

8. Best Practices and Future Trends

- Guidelines for creating low-maintenance, high-value Reusable Components.
- Exploring emerging trends like AI-based Test Automation and Self-Healing Automation.
- Strategies for maximizing Test Coverage and minimizing the automation backlogs.
- Tips for a successful transition from Manual to Automation Center of Excellence
- Case Study: Developing a plan to migrate legacy UFT tests to a modern, cloud-based ERP testing tool.

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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