Continuous Testing for ERP Releases 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

Continuous Testing (CT) for Enterprise Resource Planning (ERP) systems is no longer a luxury but a strategic imperative in the era of DevOps and agile transformation. Traditional, manual testing cycles cannot keep pace with the rapid, often quarterly, release schedules of modern cloud ERP platforms like SAP S/4HANA, Oracle Cloud, and Microsoft Dynamics 365. This course addresses the critical need for a "shift-left" quality culture, moving testing from a bottleneck to an accelerator. By integrating intelligent automation and real-time validation into the CI/CD pipeline, organizations can dramatically reduce release risk, ensure business process continuity, and maintain a high standard of system stability with every single update.

Continuous Testing for ERP Releases Training Course provides participants with the hands-on expertise to design, build, and maintain a robust Continuous Testing framework specifically tailored for complex, integrated ERP environments. We will focus on methodologies like Test Automation, Model-Based Testing (MBT), and Risk-Based Testing to manage the complexity of end-to-end business workflows that span multiple modules. The ultimate goal is to enable accelerated releases with zero downtime, ensuring that critical business operations remain flawless and driving maximal ROI from the ERP investment by guaranteeing quality with speed.

Programme Curriculum

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Course Duration

5 days

Course Objectives

Upon completion of this course, participants will be able to:

1. Implement a Shift-Left Testing strategy for ERP upgrades and patches.
2. Design a scalable ERP Test Automation Framework leveraging leading tools.
3. Integrate testing into the CI/CD Pipeline for ERP environments.
4. Master Model-Based Testing (MBT) to reduce test maintenance effort.
5. Conduct Risk-Based Testing to prioritize critical business processes.
6. Ensure Business Process Continuity across multiple ERP modules.
7. Apply Codeless Automation techniques for functional testing.
8. Define and measure key Quality Metrics for ERP releases
9. Implement effective Test Data Management strategies for large datasets.
10. Differentiate and execute various test types.
11. Troubleshoot and debug failed automated ERP test scripts efficiently.
12. Establish a culture of DevTestOps collaboration within the ERP team.
13. Leverage AI/ML in Testing for self-healing scripts and intelligent impact analysis.

Target Audience

1. ERP Project Managers
2. QA and Test Automation Engineers
3. DevOps Engineers / Release Managers
4. ERP Functional Consultants
5. IT Managers / Heads of Application Development
6. Business Process Owners
7. System Architects
8. Technical Consultants

Course Modules

Module 1: Continuous Testing Strategy for ERP

- Defining Continuous Testing in the context of Cloud ERP quarterly updates.

- Case Study: The cost reduction achieved by an organization moving from 6-week manual regression to 48-hour automated CT for SAP S/4HANA Finance releases.
- Implementing the Shift-Left and Shift-Right testing model for enterprise systems.
- Establishing Quality Gates and metrics in the ERP delivery pipeline.
- Selecting the right Test Automation Tooling for SAP, Oracle, or Microsoft Dynamics.

Module 2: Building a Robust ERP Test Automation Framework

- Codeless/No-Code and Script-Based Automation approaches for business users.
- Case Study: Designing a unified framework that supports both API testing and UI testing in Oracle Cloud.
- Best practices for creating reusable, resilient, and maintainable test scripts.
- Leveraging Keyword-Driven Testing for maximum reusability and reduced maintenance.
- Implementing version control and collaboration for the test asset library.

Module 3: Test Data Management (TDM) and Environment Setup

- Strategies for generating and securing realistic, Anonymized Test Data.
- Case Study: A global manufacturing company's strategy for refreshing large, multi-GB test environments quickly and securely for continuous testing.
- Managing a consistent and production-like Test Environment using virtualization or containers.
- Automating test data provisioning and clean-up before and after test runs.
- Techniques for creating traceable and reusable test data sets for end-to-end scenarios.

Module 4: Integration with CI/CD and DevOps

- Integrating the automated test suite with CI/CD platforms
- Case Study: Automating test execution on every code commit and nightly build for an ERP custom extension in a DevOps pipeline.
- Setting up automated execution triggers for Regression Testing after vendor-released ERP patches.
- Configuring real-time feedback and reporting for developers and stakeholders.
- Implementing a continuous monitoring strategy for post-production validation.

Module 5: Advanced ERP Testing Techniques

- Applying Model-Based Testing to automatically generate optimized test cases from ERP process flows.
- Case Study: Using MBT to achieve 100% test coverage for complex Order-to-Cash or Procure-to-Pay processes with fewer, highly efficient test cases.
- Executing Performance Testing to ensure ERP scalability before go-live.
- Implementing Security Testing and penetration checks within the continuous cycle.
- Deep-dive into Cross-Module Integration Testing for end-to-end business workflows.

Module 6: Risk Management and Quality Analytics

- Implementing Risk-Based Testing to focus automation on high-impact ERP modules and transactions.
- Case Study: Using Impact Analysis tools to automatically identify and prioritize which tests to run based on the latest ERP code changes.
- Defining key Quality Metrics and dashboards.
- Analyzing test results to provide actionable, continuous feedback to development teams.
- Techniques for managing defects and coordinating fixes in a fast-paced ERP environment.

Module 7: Testing Specialized ERP Areas (Customizations & Reports)

- Developing a strategy for testing Customizations and Extensions without breaking with vendor updates.
- Case Study: Automated verification of custom financial reports and statutory compliance checks after an ERP tax regulation update.
- Testing complex Data Migration and Data Conversion processes.
- Validating custom forms, user interfaces, and role-based access controls.
- The role of User Acceptance Testing and how to automate UAT preparation.

Module 8: Emerging Trends and Future-Proofing CT for ERP

- Understanding and leveraging AI/ML in Testing for Self-Healing Automation.
- Case Study: Utilizing AI-driven script healing to automatically fix broken locators after a minor ERP UI change, drastically reducing maintenance time.
- Testing in a Hybrid Cloud and multi-system landscape.
- The shift towards DevSecOps and embedding security into the testing pipeline.
- Hyper-automation and the evolution of Intelligent Automation in ERP.

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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