Test Case Design for ERP Business Processes 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 today's fast-paced business world, ERP (Enterprise Resource Planning) systems are essential for organizations to streamline their operations, integrate business functions, and enhance decision-making. However, the complexity of these systems necessitates rigorous testing to ensure their efficiency, accuracy, and reliability. Test Case Design for ERP Business Processes Training Course is meticulously crafted to equip professionals with the essential skills to design effective test cases tailored to ERP systems. By mastering test case creation, participants will be able to ensure that ERP modules, such as finance, human resources, inventory, and customer relationship management (CRM), function seamlessly without interruptions. As ERP systems often span multiple departments, test case design is crucial to mitigate risks and ensure smooth business operations, ultimately contributing to the overall success of an organization.

The training program offers a deep dive into the best practices for test case creation in ERP environments. From understanding key business processes to crafting test cases that thoroughly validate system functionality, the course is designed for both beginners and advanced users. Attendees will engage with real-life case studies, learn from industry experts, and gain hands-on experience with modern testing methodologies. By focusing on industry-specific scenarios, the course will provide actionable insights into overcoming the common challenges faced during ERP system deployment, testing, and maintenance. Ultimately, this training aims to enhance the quality of ERP implementations and ensure optimal system performance through well-designed and comprehensive test cases.

Programme Curriculum

Test Case Design for ERP Business Processes Training Course

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Course Duration

5 days

Course Objectives

1. Understand the fundamentals of ERP business processes and their integration across departments.
2. Learn how to create effective and efficient test cases for ERP systems using industry-standard methodologies.
3. Identify critical business processes in ERP systems that require testing.
4. Gain expertise in the functional testing of ERP modules such as Finance, HR, CRM, and Manufacturing.
5. Implement risk-based testing techniques to prioritize test cases based on business impact.
6. Analyze and address common challenges faced in ERP system testing and how to mitigate them.
7. Develop test cases that ensure seamless data flow across different ERP modules.
8. Apply both manual and automated testing techniques to ERP system testing.
9. Master the use of test management tools for tracking, reporting, and analyzing test cases.
10. Understand and implement regression testing for ERP systems post-upgrades.
11. Learn how to design tests that validate ERP system interfaces with third-party applications.
12. Ensure that ERP systems meet the necessary security and compliance requirements through targeted test cases.
13. Implement best practices for maintaining test cases as ERP systems evolve over time.

Target Audience

1. ERP System Administrators
2. Quality Assurance Engineers
3. Business Analysts
4. ERP Consultants
5. Test Managers
6. Project Managers
7. IT Professionals involved in ERP Implementations

8. Software Testers and Developers

Course Modules

Module 1: Introduction to ERP Business Processes

- Understanding the core components of ERP systems
- ERP implementation lifecycle overview
- Key ERP modules
- Integration of ERP with business functions
- Common challenges and how to overcome them

  Case Study: ERP Integration in a Global Manufacturing Firm

Module 2: Test Case Design Fundamentals

- What is a test case and its significance in ERP testing
- Test case structure and components
- Types of test cases: Functional, Regression, Integration
- Best practices for writing test cases
- Creating traceable test cases linked to business requirements

  Case Study: Test Case Design for Financial Module in an ERP System

Module 3: Risk-based Testing in ERP Systems

- Introduction to risk-based testing
- Identifying high-risk business processes
- Prioritizing test cases based on risk
- Risk assessment tools and techniques
- Handling complex test scenarios in ERP

  Case Study: Risk-based Testing for HR and Payroll Modules

Module 4: Manual Testing vs Automated Testing for ERP

- When to use manual testing vs automation in ERP
- Benefits and challenges of manual testing
- Introduction to ERP automation tools
- Creating automated test scripts for ERP modules
- Analyzing test results and debugging automated tests

  Case Study: Automating Test Cases for Inventory Management in ERP

Module 5: Functional Testing of ERP Modules

- Testing core ERP modules: Finance, HR, Sales, etc.
- Validating workflows and processes within ERP systems
- Handling complex business rules in testing
- Identifying and fixing errors in ERP functionalities
- Reporting and tracking defects

  Case Study: Functional Testing of CRM Module in ERP System

Module 6: Regression Testing for ERP Post-Updates

- Importance of regression testing in ERP systems

- Key areas for regression testing after updates and patches
- Best practices for regression testing ERP applications
- Automating regression tests for ERP systems
- Strategies to minimize regression testing efforts

  Case Study: Regression Testing for ERP System after Version Upgrade

Module 7: Testing ERP Interfaces and Third-party Integrations

- Validating ERP system interfaces with external applications
- Common integration points in ERP systems (APIs, Data imports/exports)
- Testing data consistency and synchronization
- Best practices for integration testing in ERP systems
- Tools for automating integration tests

  Case Study: Testing Integration of ERP with CRM and E-commerce Platform

Module 8: Security, Compliance, and Performance Testing in ERP

- Security testing in ERP systems
- Compliance testing for industry standards
- Performance testing for scalability and load handling
- Stress testing and identifying system bottlenecks
- Best practices for maintaining ERP security and compliance

  Case Study: Performance and Security Testing for ERP in Financial Sector

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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