Performance and Load Testing for ERP 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 dynamic enterprise landscape, ERP systems are the backbone of organizational efficiency, enabling seamless integration of finance, operations, supply chain, and human resources. However, as businesses scale, ensuring that ERP applications can handle increasing user loads, complex transactions, and real-time data processing becomes critical. Performance and Load Testing for ERP Training Course equips IT professionals, QA engineers, and business analysts with hands-on expertise in validating ERP system performance, identifying bottlenecks, and implementing optimization strategies. Participants will gain practical insights into cutting-edge performance testing tools, industry best practices, and scalable testing frameworks tailored for ERP environments.

This intensive training program focuses on empowering participants to proactively assess ERP system resilience under varying loads and stress conditions. Through a combination of theory, real-world case studies, and practical exercises, learners will master performance tuning, transaction optimization, and monitoring techniques to ensure high availability and system reliability. By the end of the course, participants will be able to design, execute, and analyze comprehensive performance and load testing strategies, enabling organizations to deliver seamless ERP experiences even under peak operational demand.

Programme Curriculum

Performance and Load Testing for ERP Training Course

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Course Duration

5 days

Course Objectives

1. Understand ERP architecture and performance considerations.
2. Analyze business processes to define critical performance scenarios.
3. Implement load testing strategies using modern testing tools.
4. Monitor system metrics for real-time performance insights.
5. Conduct stress, scalability, and endurance testing effectively.
6. Identify and troubleshoot ERP system bottlenecks.
7. Optimize ERP modules for high transaction throughput.
8. Leverage cloud-based load testing solutions for scalable tests.
9. Develop KPI-driven performance dashboards and reporting.
10. Integrate automated performance testing in CI/CD pipelines.
11. Apply best practices for database and application tuning.
12. Design test cases based on user behavior and peak loads.
13. Enhance ERP reliability and ensure seamless user experience under load.

Target Audience

1. QA Engineers and Testers
2. ERP Functional Consultants
3. System Administrators and DevOps Engineers
4. Performance Testing Analysts
5. IT Project Managers
6. Software Developers with ERP exposure
7. Business Analysts monitoring ERP KPIs
8. Technical Leads responsible for system optimization

Course Modules

Module 1: Introduction to ERP Performance Testing

- Overview of ERP architecture and modules
- Importance of performance testing for ERP systems

- Types of performance testing: load, stress, endurance
- Key performance metrics: response time, throughput, CPU/memory usage
- Case Study: Performance assessment of SAP FICO under high-volume transactions

Module 2: Performance Testing Planning & Strategy

- Defining objectives and KPIs for ERP performance
- Identifying critical business processes for testing
- Risk-based approach to load testing prioritization
- Resource estimation and environment setup
- Case Study: Strategy for Oracle ERP performance validation

Module 3: Load Testing Tools and Technologies

- Overview of leading ERP testing tools
- Cloud-based vs on-premise testing frameworks
- Test script development and parameterization
- Scheduling, execution, and automation techniques
- Case Study: JMeter implementation for SAP HCM module

Module 4: Test Environment and Data Management

- Designing realistic ERP test environments
- Data generation and masking for load testing
- Configuring system monitors and log analysis tools
- Ensuring environment scalability for peak load scenarios
- Case Study: Environment setup for Microsoft Dynamics ERP testing

Module 5: Load Test Execution & Monitoring

- Executing load, stress, and endurance tests
- Real-time monitoring of server, database, and network performance
- Handling errors and analyzing failures during execution
- Capturing metrics for post-test analysis
- Case Study: Identifying bottlenecks in Oracle NetSuite ERP

Module 6: Performance Analysis & Optimization

- Interpreting test results and KPI dashboards
- Database tuning, query optimization, and indexing strategies
- Application-level performance enhancements
- Resource scaling and load balancing techniques
- Case Study: Tuning SAP SD module to handle peak season load

Module 7: Automation & Continuous Performance Testing

- Integrating performance tests into CI/CD pipelines
- Automation frameworks for repetitive testing
- Scheduled performance regression tests
- Reporting automation and actionable insights
- Case Study: Continuous performance testing for cloud-based ERP

Module 8: Reporting & Best Practices

- Preparing comprehensive performance reports for stakeholders
- Presenting findings and recommendations effectively
- Industry best practices for ERP performance management
- Maintaining ERP performance over time
- Case Study: ERP performance benchmarking for multinational operations

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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