Performance Tuning for ERP Applications 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

Enterprise Resource Planning (ERP) systems are the backbone of modern business operations, integrating key functions like finance, supply chain, HR, and procurement into a unified platform. However, the growing complexity of ERP applications can lead to performance bottlenecks, slow transaction processing, and system downtime, directly affecting organizational efficiency. Performance tuning is no longer optional—it is a strategic necessity. Performance Tuning for ERP Applications Training Course focuses on equipping professionals with advanced skills to optimize ERP applications, ensure scalability, and achieve high-performance benchmarks, thereby enhancing business productivity and operational excellence.

In today's fast-paced digital landscape, ERP performance is a critical differentiator for enterprises seeking agility and efficiency. This course leverages real-world scenarios, hands-on exercises, and case studies from leading ERP platforms like SAP, Oracle, and Microsoft Dynamics to provide participants with practical insights and measurable outcomes. Participants will gain expertise in database optimization, code profiling, system monitoring, and proactive performance management, empowering them to identify bottlenecks, implement best practices, and drive enterprise-wide performance improvements.

Programme Curriculum

Performance Tuning for ERP Applications Training Course

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Course Duration

5 days

Course Objectives

1. Understand ERP system architecture and performance fundamentals.
2. Analyze and identify performance bottlenecks in ERP environments.
3. Master SQL query optimization and indexing techniques for ERP databases.
4. Apply memory and resource management strategies for high-performance ERP.
5. Perform real-time monitoring of ERP system performance metrics.
6. Utilize profiling tools to optimize custom ERP code and workflows.
7. Implement batch processing optimization for large-scale ERP transactions.
8. Apply caching and data retrieval optimization techniques.
9. Optimize ERP integrations with third-party applications.
10. Design proactive performance tuning strategies and dashboards.
11. Conduct stress testing and load testing for ERP applications.
12. Implement automated alerting and performance anomaly detection.
13. Develop actionable reporting for continuous ERP performance improvement.

Target Audience

1. ERP Administrators
2. IT Managers
3. System Architects
4. Database Administrators (DBAs)
5. Application Developers
6. ERP Consultants
7. Performance Engineers
8. Business Analysts supporting ERP systems

Course Modules

Module 1: ERP Performance Fundamentals

- Overview of ERP architecture and components
- Key performance metrics for ERP applications
- Understanding bottlenecks and latency issues
- Case Study: SAP ECC system performance analysis
- Benchmarking ERP transactions

Module 2: Database Optimization for ERP

- SQL query tuning and indexing strategies
- Data partitioning and archiving for high performance
- Memory management in ERP databases
- Case Study: Oracle ERP database optimization
- Query profiling and optimization exercises

Module 3: Code & Workflow Profiling

- Profiling custom ERP ABAP/PLSQL/NetWeaver code
- Optimizing workflows and background jobs
- Reducing transaction response times
- Case Study: Custom module optimization in Microsoft Dynamics
- ERP code profiling exercises

Module 4: Monitoring & Metrics

- Real-time system monitoring tools
- KPI dashboards for ERP performance
- Resource usage and capacity planning
- Case Study: Monitoring SAP S/4HANA system performance
- Configuring monitoring dashboards

Module 5: Batch Processing & Job Scheduling

- Identifying bottlenecks in batch processing
- Optimizing background jobs and scheduling
- Managing large-scale transaction loads
- Case Study: Batch processing optimization in Oracle ERP
- Job scheduling optimization exercise

Module 6: ERP Integration Optimization

- Performance impact of third-party integrations
- API and middleware performance tuning
- Data transfer and synchronization optimization
- Case Study: Performance tuning of ERP-SCM integration
- API load testing and optimization

Module 7: Stress & Load Testing

- Designing ERP stress test scenarios
- Load balancing and concurrency management
- Analyzing system resilience under peak loads
- Case Study: SAP HANA load testing in a retail ERP
- Conducting stress tests and interpreting results

Module 8: Proactive Performance Management

- Implementing automated alerts and anomaly detection
- Continuous performance improvement strategies

- Reporting and visualization of performance trends
- Case Study: ERP performance improvement roadmap
- Setting up proactive monitoring workflows

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

Start Date	End Date	Location	Price
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

Ready to enroll or request a customized program? Book online or contact us:

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Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com