ERP Security 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 finance, human resources, supply chain, and customer relationship management into a unified platform. As organizations increasingly rely on ERP solutions like SAP, Oracle, and Microsoft Dynamics, the importance of robust **ERP security** has never been higher. Cyber threats, data breaches, and insider risks pose significant challenges, making ERP security expertise a critical asset for IT professionals and business leaders alike. ERP Security Training Course is designed to empower participants with comprehensive knowledge of ERP security frameworks, risk assessment strategies, and compliance best practices.

In this intensive course, learners will explore the latest **ERP security trends**, including cloud security, role-based access controls, identity management, and real-time threat monitoring. Practical case studies, hands-on labs, and scenario-based exercises ensure participants can implement effective security policies and defend ERP ecosystems from emerging cyber threats. By the end of the program, participants will be equipped to secure critical business data, mitigate vulnerabilities, and ensure regulatory compliance, enabling organizations to operate safely in today's digital environment.

Programme Curriculum

ERP Security Training Course

Introduction

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Course Duration

5 days

Course Objectives

By the end of this ERP Security Training, participants will be able to:

1. Understand ERP security fundamentals and industry best practices.
2. Implement role-based access control (RBAC) in ERP systems.
3. Conduct vulnerability assessments and penetration testing in ERP environments.
4. Configure audit logging and monitor ERP transactions for suspicious activities.
5. Apply security policies for SAP, Oracle, and Microsoft Dynamics platforms.
6. Manage identity and access management (IAM) within ERP systems.
7. Secure ERP cloud deployments and hybrid infrastructure.
8. Detect and respond to insider threats and fraud attempts.
9. Ensure compliance with GDPR, SOX, HIPAA, and other regulations.
10. Implement encryption, multi-factor authentication (MFA), and data masking.
11. Analyze real-world ERP security breaches and mitigation strategies.
12. Design a comprehensive ERP security framework for enterprises.
13. Stay updated on emerging trends in AI-driven threat detection and zero-trust architectures.

Target Audience

- IT Security Professionals
- ERP Administrators and Consultants
- System Auditors and Compliance Officers
- Risk Management Specialists
- Cloud Security Engineers
- IT Managers and CIOs
- Data Privacy Officers
- Business Analysts focusing on ERP systems

Course Modules

Module 1: Introduction to ERP Security

- Overview of ERP systems and business impact
- Understanding common ERP threats and vulnerabilities
- Security frameworks and standards for ERP systems
- Case Study: Analysis of SAP security breach in a manufacturing company
- Security assessment methodology

Module 2: Role-Based Access Control (RBAC)

- Principles of RBAC and segregation of duties (SoD)
- Designing user roles and permission strategies
- Conflict detection and mitigation
- Case Study: Role conflict resolution in Oracle ERP
- Hands-on RBAC implementation

Module 3: Identity and Access Management (IAM)

- User provisioning and lifecycle management
- Single Sign-On (SSO) and Multi-Factor Authentication (MFA)
- Integrating IAM with cloud ERP solutions
- Case Study: Identity governance in a multinational organization
- Best practices for secure access management

Module 4: ERP Security Monitoring and Audit

- Configuring audit logs and monitoring tools
- Detecting suspicious transactions in real time
- Security dashboards and reporting
- Case Study: Fraud detection in a retail ERP system
- Threat response and incident management

Module 5: ERP Vulnerability Assessment & Pen Testing

- ERP-specific penetration testing techniques
- Vulnerability scanning and reporting
- Security patch management
- Case Study: Oracle ERP vulnerability assessment
- Remediation strategies

Module 6: Cloud ERP Security

- Securing SaaS and hybrid ERP deployments
- Data encryption and secure communication protocols
- Compliance challenges in cloud ERP
- Case Study: Cloud ERP implementation security in finance sector
- Cloud security tools and best practices

Module 7: Regulatory Compliance & Risk Management

- GDPR, SOX, HIPAA, and other regulations
- ERP risk assessment frameworks
- Security policy development and enforcement
- Case Study: Compliance strategy in a healthcare ERP system
- Continuous auditing and risk monitoring

Module 8: Advanced Threat Detection & Future Trends

- AI-driven threat detection and predictive analytics
- Zero-trust architecture in ERP security

- Incident response and disaster recovery planning
- Case Study: Implementing AI threat monitoring in SAP
- Emerging trends and continuous learning

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:

Register Online Now

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