Mobile App Integration with ERP Systems 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 the modern digital landscape, businesses are rapidly adopting ERP (Enterprise Resource Planning) systems to streamline operations, enhance productivity, and enable real-time decision-making. However, integrating these robust ERP platforms with mobile applications is critical to unlocking the full potential of digital transformation. Mobile App Integration with ERP Systems Training Course provides hands-on guidance for professionals seeking to bridge the gap between mobile solutions and ERP platforms, ensuring seamless data flow, optimized processes, and enhanced operational efficiency. Participants will gain the technical expertise and strategic insights needed to drive mobile-first ERP strategies that empower enterprises across industries.

As organizations embrace cloud-based ERP, IoT-enabled mobile solutions, and AI-driven analytics, the demand for professionals skilled in mobile app integration, API management, and cross-platform ERP connectivity is at an all-time high. This course equips learners with practical skills in ERP customization, mobile app deployment, and data synchronization to create cohesive, scalable, and secure enterprise ecosystems. Through a combination of real-world case studies, interactive workshops, and hands-on labs, participants will be able to deliver innovative mobile-ERP solutions that accelerate digital transformation and maximize ROI.

Programme Curriculum

Mobile App Integration with ERP Systems Training Course

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Course Duration

5 days

Course Objectives

By the end of this course, participants will be able to:

1. Understand the fundamentals of ERP systems and their architecture.
2. Analyze mobile app frameworks and their compatibility with ERP platforms.
3. Design API-driven integration between mobile apps and ERP systems.
4. Implement real-time data synchronization for mobile and ERP.
5. Customize ERP modules for mobile accessibility and responsiveness.
6. Optimize user experience (UX) for mobile ERP applications.
7. Secure mobile app and ERP communication with encryption and authentication.
8. Troubleshoot integration issues and ensure system reliability.
9. Apply cloud-based ERP solutions in mobile app contexts.
10. Leverage IoT and AI capabilities within mobile-ERP integration.
11. Conduct data migration and transformation for mobile compatibility.
12. Evaluate ROI and business impact of mobile-enabled ERP workflows.
13. Develop scalable strategies for future-proof ERP and mobile integration.

Target Audience

1. ERP Developers and Programmers
2. Mobile App Developers
3. IT Project Managers
4. Business Analysts
5. Digital Transformation Specialists
6. Enterprise Architects
7. System Integration Consultants
8. CIOs and Technology Decision-Makers

Course Modules

Module 1: Introduction to ERP Systems

- Overview of ERP architecture and modules
- Key ERP vendors and platforms

- ERP deployment models (cloud vs on-premise)
- Understanding ERP data structures
- Case Study: SAP mobile integration success

Module 2: Mobile App Fundamentals

- Mobile OS and platform comparison
- Cross-platform development frameworks
- Mobile UI/UX best practices
- Offline capabilities and synchronization
- Case Study: Oracle ERP mobile app rollout

Module 3: API and Middleware Integration

- Understanding REST and SOAP APIs
- Middleware platforms for ERP integration
- Data mapping and transformation
- API security and authentication
- Case Study: Microsoft Dynamics API integration

Module 4: Real-Time Data Synchronization

- Event-driven vs batch processing
- Data conflict resolution strategies
- Mobile caching techniques
- Data synchronization performance optimization
- Case Study: Mobile warehouse management integration

Module 5: Customizing ERP for Mobile Access

- Mobile-friendly dashboards and reports
- Workflow optimization for mobile users
- Role-based access control
- ERP module adaptation strategies
- Case Study: Retail ERP mobile customization

Module 6: Security in Mobile-ERP Integration

- Encryption techniques for mobile data
- OAuth 2.0 and token-based authentication
- Threat modeling and vulnerability assessment
- Secure communication protocols
- Case Study: Banking ERP mobile app security

Module 7: Emerging Technologies in ERP-Mobile Integration

- AI-driven analytics for ERP
- IoT integration in mobile apps
- Cloud-based ERP mobile strategies
- Predictive maintenance via mobile interfaces
- Case Study: Smart manufacturing ERP integration

Module 8: Hands-on Implementation & Testing

- End-to-end mobile app and ERP integration
- Testing synchronization and workflows
- Performance monitoring and optimization
- Troubleshooting integration errors
- Case Study: Logistics ERP mobile implementation

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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