Micro-cert: ERP Data Migration Specialist Training Course

Professional Development Training Course Outline

Category	Enterprise Resource Planning (ERP)	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s digital transformation era, organizations are rapidly adopting enterprise resource planning (ERP) systems to streamline operations, improve decision-making, and gain competitive advantage. Micro-cert: ERP Data Migration Specialist Training Course equips professionals with the essential knowledge and hands-on skills required to execute seamless data migration from legacy systems to modern ERP platforms. Participants will master best-practice methodologies, robust data governance frameworks, migration tools, and strategic analytics to ensure accuracy, consistency, and performance throughout the migration lifecycle.

This intensive micro-credential addresses the skyrocketing demand for migration specialists who can navigate complex data architectures, integrate disparate data sources, and ensure minimal business disruption. With industry-relevant case studies, real-world hands-on labs, and an outcomes-driven curriculum, this course empowers learners to lead ERP data migration projects with confidence, optimize data modelling, ensure compliance, and deliver measurable ROI in agile transformation environments.

Programme Curriculum

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Course Objectives

1. Master contemporary ERP data migration strategies and frameworks to execute high-impact roll-outs.
2. Develop robust data governance protocols, cleansing methods, and validation mechanisms for enterprise migration.
3. Acquire proficiency in migration tools, ETL pipeline design, and automation of repeatable migration workflows.
4. Analyze and map legacy data models to target ERP schemas using trending graph- and relational-model techniques.
5. Build scalable, high-availability data migration architecture in cloud-native or hybrid environments.
6. Implement change-management and stakeholder-engagement tactics to drive business-wide adoption.
7. Execute real-world case studies and data reconciliation exercises to ensure integrity and audit-traceability.
8. Apply agile and DevOps practices in migration project lifecycles for faster time-to-value.
9. Use advanced data profiling, anomaly detection, and reconciliation dashboards for mission-critical systems.
10. Manage risk, downtime planning, and fallback-strategy design for zero-disruption migrations.
11. Ensure compliance with data privacy, GDPR, ISO 27001 and other regulatory frameworks during migrations.
12. Leverage emerging technologies machine learning, predictive analytics—to enrich migrated ERP datasets.
13. Certify readiness to lead ERP migration initiatives and articulate measurable business value post-go-live.

Target Audience

- Data Migration Engineers transitioning to ERP ecosystems
- ERP Implementation Consultants seeking deep migration expertise
- IT Project Managers overseeing ERP roll-outs and system integrations
- Business Analysts responsible for requirements, mapping and data quality
- Enterprise Architects aligning data strategy with ERP migrations
- Change-Management Professionals facilitating user adoption and training
- Analytics and BI Specialists integrating upstream migration data into dashboards
- Compliance and Risk Managers overseeing data-migration governance and audit controls

Course Modules

Module 1: Fundamentals of ERP Data Migration

- Overview of ERP landscapes, legacy systems and target platforms

- Discovery, extraction, transformation, loading and validation
- Migration strategy options
- Common pitfalls
- Case study: Migration of 10+ year legacy ERP at a global manufacturing firm

Module 2: Data Governance, Quality & Cleansing

- Designing data governance framework aligned with ERP migration
- Profiling legacy data
- Data cleansing techniques and tools for enterprise scale
- Rule-based and machine-learning–assisted anomaly detection
- Case study: Retail chain’s product master data cleansing ahead of ERP cut-over

Module 3: Legacy Data Mapping and Target Schema Design

- Analyzing source schema, mapping to ERP data model
- Handling many-to-many relationships, lookups, historical data
- Reverse engineering undocumented legacy systems
- Designing target schema extension and custom fields in ERP
- Case study: Financial services firm mapping 15+ legacy tables into cloud ERP

Module 4: ETL & Migration Tooling

- Selecting the right ETL/migration platform
- Building pipelines
- Automation, scheduling, retry logic and logging
- Metadata management and audit trails
- Case study: Logistics company automating nightly delta loads during migration

Module 5: Cloud & Hybrid Migration Architecture

- On-premises, cloud and hybrid migration strategies
- Data transfer methods
- Designing scalable, high-availability architecture for migration runs
- Cost optimisation, performance tuning and latency mitigation
- Case study: Global e-commerce company migrating ERP into multi-region cloud

Module 6: Agile & DevOps Methods in Migration Projects

- Applying agile sprints to migration project phases
- DevOps pipeline
- Continuous integration of migration tasks with testing and delivery
- Feedback loops, retrospectives, incremental cut-over
- Case study: Software company delivering phased ERP migration using Scrum

Module 7: Change Management & Stakeholder Engagement

- Identifying key stakeholders, migration champions and sponsors
- Communication plan, training schedule and user acceptance testing
- Minimising business disruption
- Measuring adoption and behavioural change post-go-live
- Case study: Healthcare organisation’s user training and parallel run for ERP migration

Module 8: Performance Testing & Migration Validation

- Designing test plans for volume, transaction, concurrency performance
- Validating migration
- Automated regression testing, user scenario testing, cut-over rehearsal
- Metrics: time to load, latency, error rates, rollback counts
- Case study: Telecommunications provider rehearsing cut-over using full-scale migration run

Module 9: Risk, Downtime & Fallback Strategy

- Identifying migration risks
- Designing fallback and contingency plans
- Business continuity planning and disaster-recovery during migration
- Communication protocols, escalation matrix and incident logging
- Case study: Energy company executing zero-downtime ERP migration across three continents

Module 10: Data Security & Regulatory Compliance

- Ensuring data encryption, masking and anonymisation during migration
- Compliance frameworks
- Audit logging, traceability, access controls and user-role mapping
- Third-party vendor risk management and data sovereignty concerns
- Case study: Financial institution migrating ERP under strict regulatory oversight

Module 11: Historical Data Archiving & Retention Strategy

- Strategies for handling historical legacy data: archive, purge, transform
- Retention policies, legal hold, compliance archive versus active system
- Performance impact of bloated data sets on target ERP
- Designing archive access and reporting post-migration
- Case study: Manufacturing enterprise archiving 20 years of ERP history pre-migration

Module 12: Master Data Management & Governance Post-Go-Live

- Establishing master data domains
- Ongoing governance
- Data consolidation and deduplication in target ERP
- Metrics for master-data health: accuracy, consistency, timeliness
- Case study: Consumer goods company achieving 98% master-data accuracy after migration

Module 13: Analytics, Reporting & Post-Migration Value Realisation

- Leveraging migrated data for analytics
- KPI definition, baseline measurement and business value tracking
- Predictive analytics, machine learning, AI insights on ERP data
- Post-migration tuning: archive strategy, query optimisation, data model refinement
- Case study: Retail enterprise using migrated ERP data to reduce inventory carrying cost by 15%

Module 14: Multi-Domain Integrations & Ecosystem Connectivity

- Integrating ERP with CRM, SCM, HRIS, BI, IoT systems
- API-driven data flows, event-based architectures, message queues

- Managing master data across domains and ensuring end-to-end consistency
- Monitoring integrations, SLAs, error handling, reconciliation processes
- Case study: Global logistics provider integrating ERP with IoT sensor data and supply-chain platforms

Module 15: Migration Certification & Lifecycle Maintenance

- Readiness checklist, migration “go-no-go” gate reviews, post-go-live health checks
- Planning for ongoing migrations
- Creating centre of excellence for continuous improvement and reusable assets
- Certification exam prep, assessment, badge issuance and career roadmap
- Case study: IT services firm establishing internal ERP migration CoE and securing repeat revenue streams

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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