Test Data Management for ERP Projects 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 rapidly evolving business landscape, the demand for efficient and error-free ERP (Enterprise Resource Planning) systems has never been greater. Test Data Management (TDM) is a critical component in the successful deployment of ERP systems, ensuring that data used during testing is relevant, accurate, and secure. As ERP systems grow in complexity and scale, the ability to manage test data effectively becomes a pivotal challenge for organizations. By leveraging best practices in TDM, organizations can reduce risks, improve testing efficiency, and ensure that their ERP systems meet business requirements. This course offers a comprehensive approach to mastering Test Data Management for ERP projects, equipping professionals with the tools and methodologies necessary to excel in real-world scenarios.

Test Data Management for ERP Projects Training Course is designed to guide participants through the intricacies of Test Data Management, with a focus on ERP system implementation and performance. Participants will gain hands-on experience in applying the latest techniques for data masking, synthetic data creation, and data governance. By the end of the course, learners will be able to optimize test data management processes, overcome common ERP testing challenges, and integrate best practices into their organization’s workflow. Whether you’re new to ERP systems or looking to refine your expertise in TDM, this course will provide the skills and insights needed to improve the quality, security, and performance of ERP systems.

Programme Curriculum

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Introduction

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Course Duration

5 Days

Course Objectives

1. Understand the importance of Test Data Management in ERP projects to ensure efficient, secure, and reliable testing.
2. Learn how to create realistic, high-quality test data for ERP testing using synthetic data generation techniques.
3. Master data masking methods to protect sensitive information during testing, ensuring compliance with data privacy regulations.
4. Gain expertise in data governance and its role in maintaining the integrity of ERP test data throughout the project lifecycle.
5. Implement automated test data management processes to reduce manual intervention and improve testing efficiency.
6. Develop skills to manage data for complex ERP systems with large datasets and multiple integrated modules.
7. Understand the significance of data validation techniques to verify the accuracy and completeness of test data.
8. Learn how to optimize test data environments for ERP system performance and stress testing.
9. Apply the latest trends in cloud-based TDM solutions for scalable and flexible ERP test data management.
10. Understand the integration of TDM with CI/CD pipelines in modern ERP project workflows.
11. Explore best practices for handling non-production data in ERP environments to avoid data leakage and security risks.
12. Gain insights into real-world case studies of successful Test Data Management in large-scale ERP implementations.
13. Learn how to measure and optimize the ROI of TDM practices in ERP testing environments.

Target Audience

1. ERP Project Managers who need to ensure the success of testing phases in large ERP implementations.
2. QA Engineers working with ERP systems who want to improve their test data management strategies.
3. Data Security Professionals looking to learn best practices in handling sensitive data during ERP testing.
4. Test Automation Engineers who wish to integrate test data management with automated ERP testing frameworks.
5. Database Administrators managing large datasets and involved in test data generation for ERP systems.
6. Enterprise Architects overseeing the technical infrastructure and data strategy for ERP projects.
7. Compliance Officers responsible for ensuring adherence to data protection laws and regulations during ERP testing.
8. Consultants and Trainers who wish to expand their knowledge of Test Data Management within ERP systems.

Course Modules

Module 1: Introduction to Test Data Management for ERP Systems

- Understanding the role of TDM in ERP projects
- Key challenges in managing test data for ERP systems
- Best practices in data management
- Importance of data security and privacy
- Case study: Data management in large ERP implementations

Module 2: Data Masking and Data Security

- Introduction to data masking techniques
- Best practices for protecting sensitive ERP data
- Compliance with data protection regulations (GDPR, CCPA)
- Use of encryption and tokenization in ERP test data
- Case study: Implementing data masking for an ERP system upgrade

Module 3: Synthetic Data Generation

- Understanding synthetic data and its importance in ERP testing
- Tools for generating synthetic test data
- Benefits of synthetic data for large-scale ERP projects
- Techniques for creating realistic synthetic data
- Case study: Successful use of synthetic data in ERP system testing

Module 4: Data Governance and Quality Assurance

- Defining data governance in ERP testing environments
- Ensuring data accuracy and consistency in test data
- Implementing data quality controls
- Methods for ongoing data monitoring
- Case study: Data governance practices in a global ERP deployment

Module 5: Data Integration and Management in ERP Testing

- Integrating data management with ERP testing frameworks
- Techniques for managing data across multiple ERP modules
- Using cloud-based TDM solutions for ERP testing
- Ensuring data consistency and synchronization in integrated environments

- Case study: Managing test data for a multi-module ERP system

Module 6: Automated Test Data Management

- Automating test data creation and management processes
- Tools and technologies for automation in ERP testing
- Integrating TDM automation with CI/CD pipelines
- Benefits of automated TDM in reducing errors and improving efficiency
- Case study: Automated test data management in agile ERP projects

Module 7: Data Validation and Verification Techniques

- Techniques for validating the integrity of test data
- Methods for verifying data accuracy and completeness
- Automated approaches to data verification
- Handling inconsistencies in ERP test data
- Case study: Data validation challenges in a multi-national ERP rollout

Module 8: Performance Testing and Optimization with Test Data

- Using test data for ERP performance testing and stress testing
- Optimizing test data for scalability and speed
- Techniques for simulating high-volume transactions in ERP systems
- Best practices for ERP load and performance testing
- Case study: Optimizing test data for performance testing in a global ERP rollout

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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