Regression in ERP 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 dynamic enterprise landscape, optimizing ERP (Enterprise Resource Planning) systems is critical for operational efficiency, data accuracy, and strategic decision-making. Regression analysis in ERP enables organizations to predict trends, identify anomalies, and enhance process automation, ensuring that system modifications do not disrupt business continuity. Regression in ERP Training Course equips professionals with hands-on expertise in leveraging regression techniques to monitor ERP performance, detect risks, and implement proactive solutions. Through advanced analytics, predictive modeling, and real-world case studies, participants will gain the skills to improve system reliability, streamline workflows, and maximize ROI from ERP investments.

Designed for business analysts, ERP consultants, IT professionals, and decision-makers, this course emphasizes practical application, data-driven insights, and industry best practices. Participants will explore regression frameworks, test automation, and performance benchmarking to drive actionable insights and optimize ERP functionalities. By combining theory, applied exercises, and case studies, this training ensures mastery of regression in ERP, preparing participants to anticipate system challenges, minimize downtime, and support strategic enterprise growth. Whether implementing SAP, Oracle, or Microsoft Dynamics, attendees will gain a competitive edge through predictive analytics, robust testing, and data-centric ERP management.

Programme Curriculum

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Course Duration

5 days

Course Objectives

1. Master regression analysis techniques for ERP systems
2. Enhance ERP system reliability through predictive modeling
3. Identify performance anomalies and minimize downtime
4. Implement data-driven decision-making in ERP environments
5. Optimize workflows and automation using regression testing
6. Gain expertise in ERP analytics and KPI benchmarking
7. Leverage real-world case studies to solve ERP challenges
8. Improve risk management with proactive ERP insights
9. Apply regression in SAP, Oracle, and Microsoft Dynamics
10. Strengthen testing strategies for ERP upgrades and patches
11. Integrate AI and ML tools for advanced ERP regression analysis
12. Streamline ERP processes using automation frameworks
13. Build actionable dashboards for performance monitoring

Target Audience

1. ERP Consultants
2. Business Analysts
3. IT Professionals
4. Data Analysts
5. Quality Assurance Engineers
6. System Administrators
7. Project Managers in ERP Implementation
8. Decision-Makers & Strategy Leaders

Course Modules

Module 1: Introduction to ERP Regression

- Fundamentals of ERP systems and architecture

- Understanding regression testing in ERP context
- Types of regression analysis: linear, multiple, logistic
- Importance of regression in system updates and patches
- Case Study: Regression testing in SAP S/4HANA upgrade

Module 2: Data Collection and Preprocessing

- Identifying relevant ERP datasets for regression
- Data cleaning, normalization, and transformation
- Handling missing values and outliers in ERP data
- Feature selection for accurate predictions
- Case Study: Oracle ERP data preprocessing for regression

Module 3: Regression Models and Techniques

- Linear and multiple regression for ERP forecasting
- Logistic regression for process failure prediction
- Time-series regression for ERP performance monitoring
- Model evaluation metrics: RMSE, MAE, R^2
- Case Study: Microsoft Dynamics regression model for sales forecasting

Module 4: Automation and ERP Regression Testing

- Setting up automated regression test scripts
- ERP test scenarios for functional and non-functional checks
- Integration with CI/CD pipelines for ERP systems
- Reporting and logging errors systematically
- Case Study: Automated regression testing in SAP Fiori apps

Module 5: Advanced Predictive Analytics in ERP

- Predictive modeling for process optimization
- Using ML algorithms to enhance regression insights
- Forecasting demand, inventory, and resource allocation
- Scenario simulation and sensitivity analysis
- Case Study: Predictive analytics in ERP supply chain module

Module 6: ERP Performance Monitoring and KPI Tracking

- Key ERP performance indicators for regression analysis
- Dashboard creation and visualization tools
- Alert systems for anomaly detection
- Continuous performance monitoring techniques
- Case Study: KPI monitoring in Oracle Cloud ERP

Module 7: Risk Management and Troubleshooting

- Identifying high-risk ERP modules for regression failure
- Root cause analysis of system performance issues
- Mitigation strategies using regression insights
- Documentation and knowledge base management
- Case Study: Risk assessment in SAP module upgrade

Module 8: Capstone Project & Real-World Case Studies

- End-to-end regression analysis project in ERP
- Applying regression models to live datasets
- Presentation of findings and actionable recommendations
- Peer review and mentor feedback sessions
- Case Study: Complete regression audit in a multi-module ERP system

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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