SAP HANA Database Essentials for 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

SAP HANA has revolutionized enterprise resource planning (ERP) by enabling real-time data processing, high-speed analytics, and intelligent decision-making. Organizations worldwide are leveraging SAP HANA's in-memory computing to optimize business operations, streamline workflows, and gain actionable insights. SAP HANA Database Essentials for ERP Training Course equips professionals with the knowledge and skills required to harness the full potential of SAP HANA, ensuring enhanced database performance, seamless ERP integration, and improved business agility.

Designed for IT professionals, ERP consultants, and database administrators, this course emphasizes hands-on experience, practical case studies, and real-world scenarios. Participants will gain expertise in core SAP HANA concepts, database modeling, performance optimization, and data management strategies. By the end of this program, learners will be confident in implementing and managing SAP HANA databases to drive ERP success and support data-driven enterprise transformations.

Programme Curriculum

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Course Duration

5 days

Course Objectives

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

1. Understand SAP HANA architecture and in-memory computing fundamentals.
2. Implement efficient data modeling techniques for ERP applications.
3. Optimize database performance and query execution.
4. Manage data provisioning and replication using SAP HANA tools.
5. Utilize advanced analytics and reporting capabilities in HANA.
6. Administer SAP HANA security, roles, and authorization concepts.
7. Perform backup, recovery, and high availability configurations.
8. Integrate SAP HANA with SAP ERP modules for seamless workflows.
9. Explore SAP HANA Studio, Web IDE, and database client tools.
10. Apply best practices for real-time data processing and optimization.
11. Leverage predictive analytics and machine learning on SAP HANA.
12. Analyze and troubleshoot SAP HANA database performance issues.
13. Gain hands-on experience through ERP-centric case studies and exercises.

Target Audience

1. SAP ERP Consultants
2. Database Administrators (DBAs)
3. IT Managers and Analysts
4. SAP Functional Consultants
5. Data Engineers and Data Analysts
6. System Integrators
7. Business Intelligence (BI) Professionals
8. SAP Project Managers

Course Modules

Module 1: Introduction to SAP HANA

- Overview of SAP HANA architecture and components
- In-memory computing principles
- SAP HANA editions and deployment options
- SAP HANA vs. traditional databases
- Case Study: Real-time inventory management in retail ERP

Module 2: Data Modeling in SAP HANA

- Attribute views, analytic views, and calculation views

- Core Data Services (CDS) modeling
- SQLScript for advanced modeling
- Data modeling best practices
- Case Study: Financial reporting optimization in SAP ERP

Module 3: SAP HANA Administration

- HANA Studio and Web IDE overview
- User management and role assignment
- Monitoring database performance
- Backup, recovery, and system replication
- Case Study: HR module database administration

Module 4: Data Provisioning and Integration

- SAP Data Services overview
- SLT, SDA, and SDI integration methods
- Real-time and batch data replication
- Data quality and transformation best practices
- Case Study: Supply chain data integration

Module 5: Performance Optimization

- SQL query optimization techniques
- Indexing and partitioning strategies
- Memory and cache management
- Performance monitoring tools and dashboards
- Case Study: ERP order-to-cash performance tuning

Module 6: Security and Compliance

- Authentication and authorization
- Encryption and data protection
- Audit logging and compliance
- Security best practices for ERP
- Case Study: Securing financial transactions in SAP ERP

Module 7: Advanced Analytics and Reporting

- Real-time reporting with SAP HANA
- Predictive analytics integration
- Analytical views and dashboards
- HANA live data connectivity
- Case Study: Sales forecasting and analytics

Module 8: Hands-on ERP Case Studies & Capstone

- End-to-end ERP database scenario exercises
- Troubleshooting common database issues
- Optimizing database for multi-module ERP
- Case Study: Implementing a high-performance ERP HANA database
- Presentation and knowledge sharing

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

Start Date	End Date	Location	Price
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:

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