Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

ENTERPRISE RESOURCE PLANNING (ERP)

ERP APIs: REST / SOAP Integration Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 21, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

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ERP APIs: REST / SOAP Integration Training Course

Enterprise Resource Planning (ERP) • 5 Days Intensive • Accredited Certification

Course Overview

ERP APIs: REST / SOAP Integration Training Course equips professionals with the skills to connect, customize, and optimize ERP systems using modern API frameworks.

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
29 Dec 2025 – 2 Jan 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
29 Dec 2025 – 2 Jan 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Accra	Classroom / 5d	**$4,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

ERP APIs: REST / SOAP Integration Training Course

Introduction

In today's digital enterprise landscape, ERP API integration is the backbone of automation, scalability, and real-time data synchronization. ERP APIs: REST / SOAP Integration Training Course equips professionals with the skills to connect, customize, and optimize ERP systems using modern API frameworks. Participants will gain hands-on experience in designing, deploying, and troubleshooting RESTful and SOAP-based web services to streamline operations across platforms like SAP, Oracle, Microsoft Dynamics, and NetSuite.

This course empowers learners to master API lifecycle management, secure ERP communication, and automate workflows for digital transformation. Through a combination of interactive labs, industry case studies, and live projects, participants will gain the confidence to deliver robust ERP integrations that drive efficiency, business intelligence, and cloud interoperability.

Course Duration

5 days

Course Objectives

- Understand the fundamentals of REST and SOAP APIs for ERP systems.
- Configure and deploy ERP connectors for seamless data exchange.
- Build and test custom API endpoints using Postman and Swagger.
- Implement secure authentication with OAuth 2.0, JWT, and API keys.

- Integrate ERP APIs with CRM, SCM, and financial systems.
- Master JSON and XML payload management.
- Automate data migration and synchronization workflows.
- Utilize API gateways and middleware for scalable integrations.
- Apply best practices for API performance optimization.
- Troubleshoot ERP API errors and bottlenecks.
- Deploy APIs in cloud environments (AWS, Azure, GCP).
- Use real-world ERP API analytics and monitoring tools.
- Develop enterprise-ready integration strategies using REST / SOAP standards.

Target Audience

- ERP Developers and Integration Engineers
- API Architects and Backend Developers
- IT Managers and Solution Architects
- Software Consultants and System Analysts
- Cloud Engineers and DevOps Professionals
- Data Integration Specialists
- Business Process Automation Experts
- Technical Leads and Project Managers

Training Modules

Module 1: Introduction to ERP API Ecosystem

- Overview of ERP architecture and integration needs
- REST and SOAP
- Common ERP API frameworks
- Data communication and serialization formats
- Case Study: Connecting SAP ERP with Salesforce CRM

Module 2: RESTful API Design & Implementation

- REST principles and HTTP methods
- Building REST endpoints and resources
- Request/response cycles and status codes
- Postman, Swagger, Insomnia
- Case Study: Building REST APIs for Oracle ERP Cloud

Module 3: SOAP API Essentials

- SOAP envelope, headers, and fault handling
- WSDL, UDDI, and XML schema design
- Interfacing SOAP with ERP modules
- SoapUI, ReadyAPI
- Case Study: Integrating SOAP APIs with Microsoft Dynamics NAV

Module 4: Authentication & Security

- OAuth 2.0, JWT, and Basic Auth configurations
- SSL/TLS encryption and certificate management
- Role-based access control and API policies
- ERP API security audits and penetration testing
- Case Study: Securing REST APIs in SAP S/4HANA

Module 5: ERP API Integration & Middleware

- API gateways
- Connecting ERP to third-party apps
- Event-driven integration using webhooks
- Data mapping and transformation techniques

- Case Study: Integrating NetSuite ERP with AWS Lambda

Module 6: Performance Optimization & Monitoring

- Load balancing and caching strategies
- API throttling and rate limiting
- Error handling and debugging best practices
- Kibana, Grafana, Postman Monitors
- Case Study: Enhancing API response time in Oracle ERP

Module 7: Cloud-Based ERP API Deployments

- ERP API hosting on AWS, Azure, and GCP
- CI/CD pipelines for API delivery
- Containerization with Docker and Kubernetes
- API lifecycle management in cloud environments
- Case Study: Deploying ERP APIs on Azure Integration Services

Module 8: Real-World ERP API Project

- Full-cycle ERP API design and implementation
- Testing, documentation, and version control
- Project presentation and peer review
- Post-deployment monitoring and support strategy
- Case Study: Unified REST/SOAP integration for multi-ERP enterprise

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@datastatresearch.org or call +254724527104

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 DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/erp-apis-rest-soap-integration-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.