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 for the Automotive Industry: Traceability and Parts 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

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ERP for the Automotive Industry: Traceability and Parts Training Course

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

Course Overview

ERP for the Automotive Industry: Traceability and Parts Training Course is designed to empower your workforce with the essential knowledge and practical skills to fully leverage your ERP for superior Supply Chain Visibility and absolute Part Genealogy tracking.

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 for the Automotive Industry: Traceability and Parts Training Course

Introduction

The modern Automotive Industry is undergoing a profound digital transformation, making Enterprise Resource Planning (ERP) systems indispensable tools for maintaining a competitive edge. The core challenge for manufacturers, suppliers, and distributors today is achieving End-to-End Traceability. Regulatory mandates like IATF 16949 and escalating consumer safety demands necessitate a granular, real-time view of every component's journey from raw material to final vehicle VIN linkage. A robust, industry-specific ERP solution is the central digital backbone that consolidates disparate data, automates complex quality checks, and enables Proactive Recall Management. ERP for the Automotive Industry: Traceability and Parts Training Course is designed to empower your workforce with the essential knowledge and practical skills to fully leverage your ERP for superior Supply Chain Visibility and absolute Part Genealogy tracking.

This focused training is crucial for mitigating significant operational and financial risks associated with defective parts, compliance failures, and inefficient production processes. By mastering the ERP's traceability and parts management modules, participants will learn how to implement Real-Time Inventory Tracking, optimize Material Requirements Planning (MRP), and ensure rigorous Quality Assurance. Ultimately, this program translates technical ERP utilization into direct business value: reduced scrap, faster non-conformance closure, minimized Warranty Claims, and a demonstrably compliant operation that enhances Customer Trust and supports global scaling. Master the ERP, master the modern automotive supply chain.

Course Duration

5 days

Course Objectives

The participant will be able to:

- Implement and manage Part Genealogy using ERP for full component lifecycle tracking.
- Achieve IATF 16949 Compliance through automated ERP documentation and audit trails.
- Execute Forward and Backward Traceability for rapid isolation and containment of defective lots.
- Optimize Real-Time Inventory visibility and movement across multi-site operations.
- Configure Lot and Serial Number Tracking policies for critical safety parts and assemblies.
- Master Material Requirements Planning (MRP) functions for just-in-time (JIT) delivery precision.
- Streamline the Production Part Approval Process (PPAP) documentation within the ERP environment.
- Utilize ERP analytics for Predictive Quality insights and early warning defect detection.
- Manage and reconcile Warranty Claims by linking failed parts back to the original production event.
- Integrate IoT and Shop Floor Data from MES/SCADA systems directly into the ERP for true end-to-end data flow.
- Design and generate custom Compliance Reports for regulatory bodies and OEM customers.
- Conduct efficient Quarantine and Non-Conformance material handling procedures in the system.
- Drive Operational Excellence by standardizing parts management workflows globally.

Target Audience

- Quality Assurance Managers
- Production Planners/Schedulers
- ERP Power Users & System Administrators
- Supply Chain & Logistics Specialists
- Warehouse and Inventory Control Supervisors
- Compliance & Regulatory Affairs Personnel
- Manufacturing Engineers
- IT/Business Process Analysts

Course Modules

1. Fundamentals of Automotive Traceability and ERP
   - Defining End-to-End Traceability
   - Regulatory landscape.
   - The ERP's role as the Single Source of Truth for Part Genealogy.
   - Differentiating Lot and Serial Number tracking and application rules.
   - Case Study: Analyzing a major automotive recall where lack of traceability ballooned costs.
2. ERP Inventory and Warehouse Management
   - Configuring Material Master Data for traceability attributes.
   - Implementing WMS (Warehouse Management System) integration with ERP.
   - Managing multi-site and global Real-Time Stock visibility.
   - Best practices for Barcode/RFID data capture on the shop floor.
   - Case Study: Optimizing a Tier 1 supplier's Kanban system using ERP-driven inventory signals.
3. Production Planning & Shop Floor Execution (MES Integration)
   - Linking Bill of Materials (BOM) to component traceability attributes.
   - Executing and documenting work orders with automatic part consumption/traceability capture.
   - Integrating ERP with Manufacturing Execution Systems (MES) for shop floor control.
   - Managing Work-in-Process (WIP) traceability and sub-assembly linking.
   - Case Study: Tracking a complex EV battery pack assembly's component history from cell to final product.
4. Quality Control and Non-Conformance Management
   - Setting up Quality Gates and inspection points within the ERP workflow.
   - Processing and documenting Non-Conforming Material and quarantine procedures.
   - Utilizing ERP for Corrective and Preventive Actions (CAPA) initiation and tracking.
   - Electronic sign-offs and audit trails for PPAP and First Article Inspection.
   - Case Study: Automating a FMEA (Failure Mode and Effects Analysis) using data pulled from the ERP's quality module.

5. Supplier and Customer Traceability
   - Managing Supplier Traceability Records and performance metrics.
   - Implementing Vendor Portals for external data exchange and certification upload.
   - Processing customer orders and linking final vehicle information.
   - Executing efficient Reverse Logistics and return authorization processes.
   - Case Study: Establishing a secure, traceable material flow with a high-risk global supplier using EDI and ERP.
6. Recall & Warranty Management
   - Developing an ERP-driven Recall Simulation and Execution Plan.
   - Using forward and backward trace functions to Isolate Affected Population
   - Tracking Warranty Claim history, replacement parts, and root cause analysis.
   - Financial posting and cost calculation for recall events using the ERP's finance module.
   - Case Study: Reducing the cost and scope of a potential recall by $5M through pinpoint ERP isolation.
7. Regulatory Reporting and Audits
   - Generating compliant Audit Reports on demand for IATF 16949.
   - Configuring and running standard Traceability Reports
   - Data security, user access controls, and maintaining the integrity of traceability data.
   - Preparing for internal and external audits using ERP's digital trail.
   - Case Study: Successfully navigating an OEM's on-site quality audit by presenting real-time ERP data.
8. ERP Analytics and Continuous Improvement
   - Leveraging Business Intelligence (BI) tools integrated with the ERP.
   - Developing Key Performance Indicators for traceability and inventory accuracy.
   - Analyzing traceability data to identify Supply Chain Bottlenecks.
   - Using data to drive Continuous Process Improvement
   - Case Study: Implementing a dashboard that reduced Part Shortages by 15% through predictive analytics.

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-for-the-automotive-industry-traceability-and-parts-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.