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

MANUFACTURING

Enterprise Lean Transformation in Manufacturing 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 22, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

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Enterprise Lean Transformation in Manufacturing Training Course

Manufacturing • 5 Days Intensive • Accredited Certification

Course Overview

Enterprise Lean Transformation in Manufacturing Training Course is designed to equip organizations with the tools, mindset, and methodologies required to achieve operational excellence, waste elimination, and continuous improvement at scale.

Key Skills & Software Tools Covered

Process improvement • Waste reduction • Value stream mapping • Operational efficiency

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)
4 May 2026 – 8 May 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
4 May 2026 – 8 May 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
4 May 2026 – 8 May 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**
4 May 2026 – 8 May 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 110,000**
4 May 2026 – 8 May 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 110,000**
4 May 2026 – 8 May 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 110,000**
4 May 2026 – 8 May 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 110,000**
4 May 2026 – 8 May 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 110,000**
4 May 2026 – 8 May 2026	Accra	Classroom / 5d	**$4,000 USD / KES 110,000**
11 May 2026 – 15 May 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
11 May 2026 – 15 May 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
11 May 2026 – 15 May 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**

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

Course Curriculum & Modules

Enterprise Lean Transformation in Manufacturing Training Course

Introduction

Enterprise Lean Transformation in Manufacturing Training Course is designed to equip organizations with the tools, mindset, and methodologies required to achieve operational excellence, waste elimination, and continuous improvement at scale. This course focuses on integrating Lean Manufacturing, Kaizen culture, Six Sigma principles, value stream optimization, and digital lean transformation to build highly efficient, agile, and competitive manufacturing enterprises. Participants will learn how to systematically reduce cost, improve productivity, enhance quality, and accelerate delivery performance through proven global best practices.

In today's highly competitive industrial environment, manufacturers are increasingly adopting smart manufacturing, Industry 4.0 integration, operational excellence frameworks, and end-to-end value stream mapping to stay ahead. This training enables leaders, managers, and engineers to implement enterprise-wide Lean transformation strategies that align people, processes, and technology. The program emphasizes real-world application, ensuring participants can lead sustainable Lean journeys, build problem-solving cultures, and deliver measurable business impact across production systems and supply chains.

Course Duration

5 days

Course Objectives

- Implement Enterprise Lean Transformation Strategy
- Master Value Stream Mapping (VSM) Optimization
- Reduce Manufacturing Waste (Muda, Mura, Muri)
- Drive Continuous Improvement (Kaizen Culture)
- Enhance Operational Excellence Frameworks
- Improve Overall Equipment Effectiveness (OEE)
- Apply Lean Six Sigma Methodologies
- Optimize Production Flow and Cycle Time
- Strengthen Smart Manufacturing Integration
- Develop Problem-Solving and Root Cause Analysis Skills
- Achieve Cost Reduction and Profit Maximization
- Build Agile Manufacturing Systems
- Lead Digital Lean Transformation Initiatives

Target Audience

- Manufacturing Plant Managers
- Operations Directors & Executives
- Production Engineers
- Continuous Improvement Managers
- Industrial Engineers
- Supply Chain Managers
- Quality Assurance Professionals
- Lean Six Sigma Practitioners

Course Modules

Module 1: Lean Manufacturing Foundations

- Principles of Lean Thinking
- History and Evolution of Lean Systems
- Identification of 8 Types of Waste
- Introduction to Kaizen Philosophy
- Lean vs Traditional Manufacturing Systems
- Case Study: Toyota Production System implementation success story

Module 2: Value Stream Mapping (VSM)

- Current State Mapping Techniques
- Future State Design Principles
- Bottleneck Identification
- Flow Optimization Strategies
- Lead Time Reduction Methods
- Case Study: Automotive assembly line VSM redesign

Module 3: Kaizen & Continuous Improvement

- Kaizen Event Planning
- Employee Engagement Strategies
- Small Improvement vs Breakthrough Kaizen
- Standard Work Development
- Improvement Tracking Systems
- Case Study: Electronics manufacturing Kaizen success model

Module 4: Lean Six Sigma Integration

- DMAIC Methodology
- Defect Reduction Techniques

- Statistical Process Control (SPC)
- Root Cause Analysis Tools
- Process Capability Improvement
- Case Study: Pharmaceutical defect reduction project

Module 5: Total Productive Maintenance (TPM)

- Autonomous Maintenance Systems
- Planned Maintenance Strategy
- OEE Improvement Techniques
- Equipment Reliability Enhancement
- Downtime Reduction Strategies
- Case Study: Heavy machinery uptime improvement program

Module 6: Smart Manufacturing & Industry 4.0

- Digital Lean Transformation Concepts
- IoT in Manufacturing Systems
- Real-Time Production Monitoring
- Predictive Maintenance Analytics
- Automation & Robotics Integration
- Case Study: Smart factory transformation in FMCG industry

Module 7: Supply Chain & Lean Logistics

- Lean Supply Chain Design
- Inventory Optimization Techniques
- Just-In-Time (JIT) Systems
- Demand Forecasting Methods
- Supplier Integration Strategies
- Case Study: Global automotive supply chain optimization

Module 8: Lean Leadership & Culture Transformation

- Leadership in Lean Environments
- Change Management Strategies
- Employee Empowerment Models
- Performance Measurement Systems
- Sustaining Lean Culture
- Case Study: Enterprise-wide Lean transformation in aerospace manufacturing

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/enterprise-lean-transformation-in-manufacturing-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.