



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Manufacturing And Assembly Logistics Planning Principles Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 116292 · NQF Level 4 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with the principles of manufacturing and assembly logistics planning, enabling them to coordinate material flow, production schedules, and assembly processes effectively. It focuses on optimizing supply chain integration, reducing waste, and ensuring timely delivery within a manufacturing environment.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	116292
Accreditation	SAQA Accredited · NQF Level 4 · 12 Credits
Duration	9 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply logistics planning principles to coordinate material flow and assembly sequences in a manufacturing environment.
- Analyze production schedules and resource requirements to optimize manufacturing and assembly throughput.
- Evaluate supply chain constraints and propose solutions to minimize disruptions in manufacturing logistics.
- Design a logistics plan that integrates procurement, inventory management, and assembly line balancing.
- Implement monitoring mechanisms to track logistics performance and identify areas for continuous improvement.
- Demonstrate the ability to communicate logistics plans effectively across cross-functional teams.

WHO SHOULD ATTEND

- This course is designed for production planners, logistics coordinators, supply chain managers, and manufacturing supervisors who are involved in planning and controlling manufacturing and assembly operations.

COURSE OUTLINE

Day 1: Introduction to Manufacturing and Assembly Logistics

- Overview of manufacturing and assembly logistics
- The supply chain context: from raw materials to finished goods
- Key logistics principles: flow, integration, and optimisation
- Logistics terminology and concepts
- Importance of logistics planning in cost reduction and customer satisfaction

Day 2: Logistics Planning Fundamentals

- The logistics planning cycle
- Strategic, tactical, and operational planning levels
- Demand forecasting methods: qualitative and quantitative
- Inventory management: types, costs, and control
- Safety stock and reorder point calculations

Day 3: Production Planning and Scheduling

- Production planning overview: aggregate planning to MPS
- Material Requirements Planning (MRP) logic and bill of materials
- Capacity planning: rough-cut and capacity requirements planning
- Scheduling methods: forward, backward, and finite scheduling
- Gantt charts and critical path analysis

Day 4: Warehouse and Inventory Management

- Warehouse roles in manufacturing logistics
- Layout design: flow, storage, and picking strategies
- ABC analysis and cycle counting
- Warehouse management systems (WMS) features and benefits
- Inventory accuracy: physical inventory and reconciliation

Day 5: Transportation and Distribution Planning

- Transportation modes: road, rail, air, sea, and intermodal
- Carrier selection and rate negotiation
- Route planning and optimisation methods
- Distribution network structures: direct, hub-and-spoke, cross-docking
- Load planning and consolidation techniques

Day 6: Lean Logistics and Just-in-Time (JIT)

- Lean manufacturing overview: value, value stream, flow, pull, perfection
- JIT philosophy and its logistics implications
- Kanban systems: types and implementation
- Seven wastes (muda) in logistics
- Kaizen events and process improvement tools

Day 7: Supply Chain Integration and Collaboration

- Supply chain integration: internal and external
- Collaborative Planning, Forecasting, and Replenishment (CPFR)
- Vendor-managed inventory (VMI) and consignment stock
- Information systems: ERP, SCM software, and data sharing

- Supply chain KPIs: fill rate, on-time delivery, inventory turnover

Day 8: Logistics Risk Management and Compliance

- Risk identification: supply disruptions, demand volatility, transportation risks
- Risk assessment tools: FMEA, risk matrices
- Contingency planning and business continuity
- Regulatory compliance: health and safety, customs, environmental
- Quality management: ISO standards, Six Sigma in logistics

Day 9: Practical Integration and Final Assessment

- Case study: end-to-end logistics planning for a manufacturing facility
- Group exercise: designing a logistics plan
- Presentation and peer review of logistics plans
- Final assessment: written test and practical application
- Action planning: personal development and workplace implementation

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **12 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 33,300.00	R 33,300.00
1	In-House	R 43,300.00	R 43,300.00
1	On-Campus (Pretoria)	R 50,000.00	R 50,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
05 Aug 2026	17 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	18 Aug 2026	On-Campus	Lagos, Nigeria
07 Aug 2026	19 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	24 Aug 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	25 Aug 2026	On-Campus	Abu Dhabi, UAE

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 116292) and click **Get A Quote / Apply**. Select your training method and number of delegates – your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za – our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call +27 12 004 8389 or WhatsApp +27 65 077 6310 and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically – the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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