



Manufacturing AI and Workforce Readiness Course

31 May – 4 June 2027
Paris

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Ref: 338_128203 **Date:** 31 May – 4 June 2027 **Location:** Paris **Fees:** 5700 Euro

Overview

The Manufacturing AI and Workforce Readiness Course is a five-day intermediate course for manufacturing leaders, operations managers, engineering teams, HR partners, transformation teams, and workforce planners who leave with a Manufacturing AI Workforce Readiness Roadmap. The course connects AI use cases, process and task changes, role impacts, skills, human-machine decision rights, safety, reliability, adoption, learning pathways, and performance measures. Agile Leaders Training Center delivers this course on manufacturing AI and workforce readiness.

Who Should Attend

- Manufacturing leadership functions responsible for operational direction and transformation
- Operations functions responsible for production workflows, performance, and adoption
- Engineering functions responsible for equipment, automation, and technical change
- Workforce functions responsible for roles, skills, learning, and capacity
- Safety and quality functions responsible for reliable work and control
- Transformation functions responsible for AI use cases and value realization

The course assumes participants influence manufacturing work or workforce decisions and leaves out model development, machine programming, and labor-law advice.

Departments and Industries

The course supports workforce readiness across manufacturing and related industrial operations.

- Production, engineering, and maintenance operations
- Quality, safety, and continuous improvement functions
- Human resources and workforce development teams
- Logistics and supply chain operations
- Energy, utilities, and process industries

Learning Objectives

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



- Analyze manufacturing AI use cases and work-system implications
- Build task, role, skill, and readiness impact maps
- Apply human-machine collaboration and decision-rights design
- Evaluate safety, reliability, governance, and adoption controls
- Prioritize learning pathways and workforce transition actions
- Create a Manufacturing AI Workforce Readiness Roadmap

Course Agenda

Day 1: Manufacturing AI Context

- Manufacturing Value Stream and AI Opportunity Map
- Industrial AI Use Case Value and Feasibility Matrix
- Production Data System and Decision Flow Diagram
- Workforce Stakeholder and Change Impact Register
- AI Adoption Assumption and Evidence Log

Day 2: Work Roles and Skills

- Task Automation Augmentation and Retention Analysis
- Role Scope and Responsibility Change Canvas
- Manufacturing Skill and Proficiency Matrix
- Critical Knowledge and Experience Risk Map
- Workforce Readiness Baseline Scorecard

Day 3: Human-Machine Work Design

- Human-Machine Collaboration Workflow Blueprint
- Decision Rights and Exception Handling Matrix
- Operator Interface and Information Needs Checklist
- AI Output Interpretation and Challenge Protocol
- Process Redesign and Handover Simulation Map

Day 4: Safety Adoption and Capability

- AI-Enabled Work Safety and Hazard Review
- Reliability Oversight and Escalation Control Plan
- Worker Engagement and Social Dialogue Map
- Learning Pathway and Practice Architecture
- Adoption Performance and Competence Dashboard



Day 5: Workforce Readiness Practice

- Suggested Exercise: AI Use Case and Work Impact Review
- Suggested Exercise: Role and Skill Gap Assessment
- Suggested Exercise: Human-Machine Decision Simulation
- Suggested Exercise: Safety Learning and Adoption Decision
- Capstone Exercise: Manufacturing AI Workforce Readiness Roadmap

Practical Exercises

The course includes suggested activities for connecting manufacturing AI adoption with workforce and operating decisions.

- Suggested activity: assess an AI use case against tasks, roles, value, and feasibility.
- Suggested activity: map skill gaps and select learning and practice responses.
- Suggested activity: redesign a human-machine workflow with decision and escalation points.
- Suggested activity: present a Manufacturing AI Workforce Readiness Roadmap with owners, controls, measures, and phases.

FAQs

Who suits the Manufacturing AI and Workforce Readiness Course?

Manufacturing leaders, operations managers, engineers, HR partners, transformation teams, and workforce planners suit the course; it assumes involvement in industrial work or workforce decisions.

How does manufacturing AI workforce readiness differ from a technical AI course?

Manufacturing AI workforce readiness focuses on work, roles, skills, collaboration, safety, adoption, and governance rather than model coding or industrial-system configuration.

How does AI change manufacturing roles?

AI can automate selected tasks, augment diagnosis and decisions, expand oversight duties, create exception-handling work, and shift skill needs toward interpretation, judgment, collaboration, and accountability.

Why is human-machine collaboration important in manufacturing?

Human-machine collaboration defines which activities rely on speed and pattern recognition, which require human judgment, and how information, decisions, exceptions, safety, and accountability move between them.



What belongs in a Manufacturing AI Workforce Readiness Roadmap?

A Manufacturing AI Workforce Readiness Roadmap links use cases, task and role impacts, skill gaps, work design, safety, engagement, learning pathways, owners, measures, and phased actions.

Conclusion

Participants leave with a Manufacturing AI Workforce Readiness Roadmap connecting industrial use cases, work design, roles, skills, safety, adoption, and ownership. The work product improves how technology and workforce decisions are coordinated. It gives manufacturing teams a reusable structure for collaboration design, capability development, reliable operation, and phased transition.