



Industry 5.0 Intelligent Enterprise Design Training Course

7 – 11 March 2027
Johannesburg

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Overview

Industry 5.0 Intelligent Enterprise Design Training Course is a one-week course for transformation leaders, operations managers, manufacturing engineers, IoT specialists, analysts, and enterprise architects, who leave with an Industry 5.0 Design Portfolio. Participants assess human-centricity, sustainability, and resilience, map IIoT data, select analytics, design human-machine collaboration, and govern an enterprise roadmap. Agile Leaders Training Center develops Industry 5.0 intelligent enterprise design capability.

Who Should Attend

- Digital transformation functions responsible for industrial strategy and roadmaps
- Operations functions responsible for performance, resilience, and workforce integration
- Manufacturing engineering functions responsible for connected production systems
- Industrial IoT and analytics functions responsible for operational data and insights
- Enterprise architecture functions responsible for technology, integration, and governance

The course assumes participants can describe an industrial process and interpret operating measures, and leaves out device programming, robotics engineering, advanced machine learning, and equipment procurement.

Departments and Industries

The course supports departments and industries designing connected, worker-centered, sustainable, and resilient operations.

- Operations, manufacturing, engineering, maintenance, and quality
- Digital transformation, data analytics, information technology, and architecture
- Manufacturing, automotive, aerospace, and industrial services
- Energy, utilities, logistics, and transportation
- Healthcare production, food processing, and construction materials

Learning Objectives

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



- Evaluate Industry 5.0 human-centricity, sustainability, and resilience
- Analyze industrial processes, actors, assets, and IIoT data
- Prioritize operational analytics and intelligent use cases
- Design human-machine collaboration and decision safeguards
- Build an intelligent enterprise architecture and governance model
- Create a staged Industry 5.0 implementation roadmap

Course Agenda

Day 1: Frame Industry 5.0 Value

- Industry 5.0 Three-Pillar Assessment
- Stakeholder Value and Worker Wellbeing Map
- Industrial Resilience Capability Profile
- Sustainability Outcome and Boundary Canvas
- Industry 5.0 Opportunity Charter

Day 2: Map IIoT and Operational Data

- Industrial Process and Asset Map
- IIoT Sensor and Data Flow Diagram
- Connectivity and Interoperability Matrix
- Operational Data Quality Checklist
- Cyber-Physical Dependency Register

Day 3: Design Intelligent Use Cases

- Industry 5.0 Use-Case Selection Matrix
- Operational Analytics Question Canvas
- Monitoring and Decision Indicator Tree
- Human-Machine Task Allocation Model
- Responsible Industrial AI Safeguard Checklist

Day 4: Architect and Govern the Enterprise

- Intelligent Enterprise Capability Architecture
- Technology and Process Integration Blueprint
- Resilience Scenario and Response Map
- Sustainability and Human Impact Scorecard
- Industry 5.0 Governance Gate Model



Day 5: Practice Industry 5.0 Design

- Exercise: Assess an Industry 5.0 Opportunity
- Exercise: Map an IIoT Data Path
- Exercise: Design Human-Machine Collaboration
- Exercise: Prioritize Architecture and Governance Actions
- Capstone: Industry 5.0 Design Portfolio

Practical Exercises

The course uses suggested activities based on industrial operations in manufacturing, energy, logistics, and food processing.

- Suggested activity: assess an operating challenge against human-centricity, sustainability, resilience, value, and constraints.
- Suggested activity: map assets, sensors, data flows, dependencies, quality controls, and decision points.
- Suggested activity: compare use cases and design task allocation, safeguards, indicators, and human oversight.
- Suggested activity: assemble an architecture, governance model, scorecard, and staged implementation roadmap.

FAQs

Who suits Industry 5.0 intelligent enterprise design training, and what does it assume?

Transformation, operations, engineering, IIoT, analytics, and architecture functions suit the training; it assumes familiarity with industrial processes and operating measures.

How does Industry 5.0 design differ from general Industry 4.0 training?

Industry 5.0 design uses connected technology while making human-centricity, sustainability, and resilience explicit design criteria; general Industry 4.0 training usually concentrates on digital connectivity and automation.

How does IIoT support an Industry 5.0 intelligent enterprise?

IIoT provides operational observations from connected assets and processes that support monitoring, analysis, human decisions, adaptive responses, and evidence for sustainability and resilience.

What makes human-machine collaboration useful in Industry 5.0?

Human-machine collaboration becomes useful when task allocation matches human judgment and machine capability, safeguards are explicit, worker impact is considered, and accountable oversight remains in place.



How should an Industry 5.0 roadmap be prioritized?

An Industry 5.0 roadmap should prioritize use cases by stakeholder value, worker impact, sustainability, resilience, data readiness, integration effort, risk, governance, and measurable operational outcomes.

Conclusion

Participants take back an Industry 5.0 Design Portfolio containing a pillar assessment, process and data maps, use-case choices, analytics questions, task allocation, safeguards, architecture, governance, scorecards, and a roadmap. It changes isolated technology ideas into traceable enterprise design decisions. The portfolio supports review, prioritization, piloting, governance, and improvement.