

The Industry 4.0 Ecosystem

COURSE OUTLINE

Catalogue Number	77-3301-0020
Category	Industry 4.0
Prerequisites	Level 1 and 2 Industry 4.0 Courses

Activity 1: The Fully Digital Factory

- Benefits of Digital Factories
- Transitioning to a Digital Factory
- The Digital Factory Workforce
- Digital Factory Execution and Control

Activity 2: Real Time Business Processes (RTBP)

- Defining RTBP
- Features of RTBP
- Technologies that Enable RTBP
- Business Benefits of RTBP

Activity 3: Enhanced Customer Experience

- Industry 4.0 and the Customer Experience
- The Customer Lifecycle
- Customer Lifecycle and Industry 4.0 – Use Cases

Activity 4: Competitive Industrial Production

- Competitive Priorities of Production
- Competitive Strategies

Activity 5: Custom Mass Production

- Modularity as the Enabler of Custom Mass Production
- Flexible and Agile Manufacturing
- Mass Customization Design Principles
- Integrated Business Approaches

Activity 6: Maintaining Production

- Production Quality Concepts

Improvement through Digital Transformation

Maintenance 4.0

Key Technologies for Quality 4.0 and Maintenance 4.0

Activity 7: Lean Equipment Management

Defining Lean Manufacturing

Six Sigma – Definition and Laws

Lean Equipment Reliability

Benefits of the Lean Method

Tips for Implementation