

# Industry 4.0 for Business

## COURSE OUTLINE

Catalogue Number	3301-0021
Category	Industry 4.0
Prerequisites	Level 1 and 2 Industry 4.0 Courses

### Activity 1: Industry 4.0 Technology Overview

- Enabling Industry 4.0
- IIoT and Cloud Computing
- Cybersecurity
- AR and VR
- Additive and Flexible Manufacturing

### Activity 2: Intelligent Decision Making

- Industry 4.0 Outcomes
- Enabling Information Transparency
- Multiple Use
- Coordination
- Efficiency

### Activity 3: Supply Chain and Logistics

- From Raw Material to Customer
- Inventory and Asset Tracking
- Scheduling and Order Coordination
- Supply Chain Tracking

### Activity 4: CBM and Digital Twins

- Coordinating Maintenance Activities
- CBM Diagnostics and Prognostics
- CBM and Product Service – Case Studies
- CBM and Digital Twins – Case Studies
- Increasing Life Expectancy

**Activity 5: Optimization**

Predictive and Reactive Analytics  
Introduction to Bayesian Networks  
Reading Bayesian Networks  
Diagnostic Analysis

**Activity 6: Customer Satisfaction**

Product Quality  
Competitive Pricing  
Product Range  
Small Lot Capabilities  
Supply Times

**Activity 7: Value of a Smart Factory**

Competitive Advantage of Industry 4.0 Technologies  
Digital Factory Process Stages  
Business Advantages of Each Project Stage

**Activity 8: Customized Mass Production**

Driven by Industry Technologies  
Faster Manufacturing Technologies  
Digital Control of Assets

**Activity 9: Blockchain**

What is Blockchain?  
Core Features of Blockchain  
Blockchain Transactions