



Exploring How to Transform Your Business With Industry 4.0

DURATION: 28 HOURS

OVERVIEW

Industry 4.0 is gathering momentum globally, and many companies are looking to adopt technologies such as data analytics and Industrial Internet-of-Things to improve their manufacturing competitiveness. This new era of manufacturing is characterized by seamless and effective data exchange across the value chain – from customer requirements, to supply chains, manufacturing, logistics and after-market services. The main driving force behind IR 4.0 consists of 9 pillars. This non-technical IR 4.0 course will help the participants to learn, apply, experience, discover, and act on what is promised by IR4.0. This course will cover various fundamental concepts and their applications. Learning process is strengthened through engaging hand-on activities.

LEARNING OUTCOME

Upon completion of this program, participants should be able to:

- Explain the general concept of IR4.0
- Appreciate how AI can play an important role in our daily life.
- Perform data analytics for better decision making
- Understand how to protect ourselves from cyber space
- Describe the benefits of cloud computing brings to the current settings

CONTENTS

Module 1 – An Introduction to Industry Revolution 4.0

- What is IR4.0?
- How do we related to IR4.0
- Success Stories
- Hands-on: how to effectively use Google search to perform topical research

Module 2 – Artificial Intelligence (AI)

- What is AI?
- AI vs Automation?
- AI in our daily life
- Applications domains of AI
- Hands-on: experiencing AI yourself

Module 3 – Data Analytics

- What is data analytics?
- Data vs information
- The general Data Analytics Process
- A Data driven organization
- Hands-on: collecting high quality data

Module 4 – Business Analysis

- Introduction to Business Intelligence
- What, when and why in business analysis
- A Pivot table for effective business analysis
- Hands-on: using Microsoft Excel & PivotTable

Module 5 – Cybersecurity

- What do I care about Cybersecurity?
- Type of Malware and Cyber Attacks
- Prevention against Cybersecurity Threats
- Hands-on: Back-up your files, safe surfing, encryption of data

Module 6 – Cloud Computing

- How can we do things differently with cloud computing?
- Type of cloud computing
- Some successful stories with cloud computing
- Hands-on: MS Office 365 as SaaS, One Drive Cloud Storage

Module 7 – Blockchain Technology

- What is Blockchain?
- Blockchain application

Module 8 – Internet of Things

- What is IoT?
- How Internet of Things change our lives and the industry?

Module 9 – Robotics and Automation

- Introduction to advanced robotics

Module 10 – Future Trends

- What's next for us?

METHODOLOGY

Online E-learning – Talent LMS (Video presentations, articles, assessments, case studies)

TARGET AUDIENCE

All general audiences with basic computer skills (e.g Windows 10/11, MS Excel) and do not require any programming language knowledge.

