

INDUSTRY 4.0

IoT & Industry 4.0 Foundations

Beginner · 2 days · Physical · Penang

Level	Beginner
Duration	2 days
Delivery	Physical · Penang
Funding	HRD Corp SBL-Khas claimable subject to employer eligibility and approval. Corporate and self-pay options available.

Programme Overview

This foundation programme introduces the core technologies and implementation thinking behind Industry 4.0. Participants learn how IoT sensors, connectivity, data platforms, automation, analytics and cyber-physical systems work together to improve productivity and visibility. The course is designed for non-specialists and technical staff who need a practical overview before investing in transformation projects. Through examples from manufacturing, facilities, maintenance and operations, learners identify where data capture and automation can reduce downtime, improve quality and support better decision making. The programme also covers readiness assessment, implementation risks and the importance of people, process and governance in digital transformation.

Learning Outcomes

- Explain the building blocks of IoT and Industry 4.0
- Identify practical use cases in operations and manufacturing
- Map sensor data to business decisions
- Recognise connectivity, security and integration risks
- Assess readiness for pilot projects
- Draft a simple Industry 4.0 opportunity roadmap

Programme Structure

Day 1

- Core concepts and workplace context
- Guided demonstrations and hands-on exercises
- Group work, review and implementation planning

Day 2

- Core concepts and workplace context
- Guided demonstrations and hands-on exercises
- Group work, review and implementation planning

Who Should Attend

Manufacturing teams, engineers, operations managers, facilities teams, SME owners and transformation committees.

Prerequisites

No programming required. Technical curiosity is helpful.

Assessment & Certification

Participants complete practical exercises, group activities and a post-course review. A Certificate of Attendance is issued by TVET Digital Academy upon completion.

Fees & HRD Corp Funding

HRD Corp SBL-Khas claimable subject to employer eligibility and approval. Corporate and self-pay options available.

To request a formal quotation, HRD Corp documentation pack, or to enrol, contact the Programme Secretariat on WhatsApp 013-394 2462 or email tvetdigital@gmail.com.