

## **COURSE DURATION**

14 hours

## **COURSE SYNOPSIS**

This course is suitable for learners who are new to the latest development in terms of technology for Industry 4.0. This course will introduce current technological tools and its application in the workplace and home. In addition, we will also uncover emerging technology that will impact how we work and interact e.g. blockchain, NFTs and Metaverse.

Learners will understand and be able to apply analytics to gain business insights, use automation to enhance productivity understand security risks associated with using emerging technologies and how they can mitigate these risks.

## **LEARNING OUTCOMES**

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

- State the jobs and digital skills required in the current and future digital economy
- Describe the work requirements in a technology-rich environment and know the associated cybersecurity risks
- Identify various digital applications and tools in work applications, including widely applicable national and sectoral platforms
- Suggest how data and information can be used
- Perform functional outcomes such as the use of digital tools and software to access various learning paths and content
- Develop a post-course action plan to continue learning (i.e., to identify courses that would allow participants to further deepen their skills in the four key areas).

## **TRAINING METHODOLOGY**

- Interactive lecture
- Group discussion
- Hands-on activity
- Tech-enabled learning through Chatbots and Online Quiz

## **ASSUMED SKILLS**

- Learners must be able to read, write, speak and understand English at Secondary school level
- Learners to have minimum GCE 'O' level or ITE certificate education
- Learner should have at least 1 year's working experience in any industry
- Learners must be able to operate a personal computer, use keyboard and mouse

**COURSE CONTENT****Learning Unit 1: Data Analytics**

- Introduction
- Importance of Data Analytics in the current and future digital economy
- Ensuring data is stored anonymously
- Digital Skills and Jobs Awareness in the current and future digital economy

**Learning Unit 2: Automation**

- Introduction to Automation
- Programmable Automation
- Artificial Intelligence
- Generative Artificial Intelligence such as ChatGPT
- Conversational Automation
- Future trends for automation in the workplace

**Learning Unit 3: Cybersecurity Risk**

- Introduction to Cybersecurity Risk
- Areas of cybersecurity risk and its implication and effect to the individual and organization
- How to mitigate cybersecurity risks? (physical, software, policy and regulatory)

**Learning Unit 4: In-demand Digital Tools**

- Introduction to Industry 4.0
- Nationally launched applications
- Additive Manufacturing and its application across industry
- Autonomous Robots and its impact across sectors
- Introduction to Digital Banks
- Explore upcoming digital technology and impact on how we work, live and interact