SKILLS LAB

Skills Lab Pty Ltd RTO Code 45486

Micro Credentials

BE INDUSTRY 4.0 READY

Undertaking the below micro credentials will enable organisations to optimise their systems within both advanced manufacturing and essential services environments.

On completion of each micro credential, participants may choose to then complete another micro credential. A digital badging system may reward continuous improvement and advancing knowledge in this area as they work towards the Diploma of Applied Technologies. Whilst the above units have been clustered together to form a micro credential, the units may be delivered individually (across 7-10 days) as a short-accredited unit of competency. (This is subject to a pre-training review to: ensure suitability for the course; applicability in the workplace, and that the prior blocks of knowledge are established.)

These micro credentials will also build towards equipping individuals with the skills required to identify opportunities to digitalise processes, operations and services. This will also provide learners with the opportunity to develop their entrepreneurial thinking and problem-solving capabilities.

Equipping organisations and individuals for Industry 4.0 and a digitised future.

For a more detailed discussion on your training requirements and availability, please contact Skills Lab on 1300 080 302.

Accredited Micro Credentials

Cyber Systems Certification Industry 4.0

> **VU22310**   Work in Industry 4.0

> **VU22316**   Apply principles of networking technologies for manufacturing and engineering applications

> **VU22317**   Analyse and manage big data in cloud-based systems

This will include:

- How industry 4.0 works
- Connected systems
- Remote operation
- Cyber security
- Digitalisation and smart data
- Optimisation and productivity

Certified Automation Professional

> **VU22313**   Implement and problem solve a PLC-based industrial control system

> **VU22315**   Use SCADA system to monitor and control an industrial process

> **VU22311**   Commission a cyber-physical system

This will include:

- Digital controls
- Industrial automation
- Automation commissioning
- Commissioning of connected systems
- Cyber security
- Optimisation and productivity

Digital Manufacturing Certification

> **MEM23004A**   Apply technical mathematics

> **MEM14091A**   Integrate manufacturing fundamentals into an engineering task (MEM23004A is a pre-requisite)

> **VU22312**   Produce components using CAD and CAM technologies

This will include:

- Advanced manufacturing
- 3D printing
- CNCs
- Lean manufacturing
- Optimisation and productivity

Non-Accredited Micro Credentials

Introduction to AI Programming and Principles

This will include:

- Artificial Intelligence Familiarisation
- When AI should/should not be used
- Analytics and Statistics
- AI Ethics

Learning outcomes:

- Learning the basics of python programming
- Introduction to machine learning
- Overview of artificial intelligence in an industrial environment
- AI tools and data analytics
- Information gathering from datasets
- Ethical approaches to AI systems

Assessment:

Knowledge assessments would be mapped against the course content in the form of short assignments and knowledge-based quizzes. Practical assessments performed through virtual capability and tools available through SAGE network.

Delivery:

5 days

AI for Manufacturing

This will include:

- Building your AI framework
- AI changing manufacturing
- Competencies of digitally transformed manufacturers
- Supply chain optimisation
- Productivity Tools
- Business Intelligence in manufacturing and supply chain management

Learning outcomes:

- Learning the basics of python programming
- Introduction to machine learning
- Digital tools available to improve productivity
- Ability to optimise supply chain and business processes

Assessment:

Knowledge assessments would be mapped against the course content in the form of short assignments and knowledge-based quizzes. Practical assessments performed through virtual capability and tools available through SAGE Group.

Delivery:

5 days

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CONTACT US FOR MORE INFORMATION

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