

Operate Electrical Measurement Devices (Blended) MF-INT-102E-1

Code: OEMD

Duration: 16 Hours

Synopsis:

This module is developed to enable learners to acquire knowledge and skills in operating the electrical measurement devices in manufacturing at work.

Course Objective:

On completion of this module, learners will be able to operate electrical measurement devices to measure the electrical characteristics of control circuits.

Course Outline:

The knowledge and skills covered in this module include:

Skills:

- Prepare for electrical measurement activities
- Carry out electrical measurement
- Maintain electrical measurement equipment

Knowledge:

- Importance of work instructions
- Types of electrical measurements
- Types of measurement equipment
- Types of materials
- Types of electrical and electronic components
- Types of power source
- Importance of measurement equipment's fitness-for-use status
- Handling of faulty or unsafe measurement equipment procedures
- Handling of electrostatic discharge (ESD) sensitive device/component procedures
- Use of electrical measurement equipment
- Interpret types of control circuits
- Interpret electrical measurement specifications or parameters
- Interpret types of electrical and electronic symbols
- Types of measurement errors
- Importance of recording and reporting electrical measurement results
- Cleaning methods
- Cleaning agents
- The importance of maintaining the measurement equipment cleanliness
- Importance of returning tools, equipment and materials

- Handling of worn out tools and equipment procedures
- Importance of clearing the waste

For Whom:

Suitable for operational level.

Entry Requirements:

Participants are assumed to:

- Have a basic knowledge of the manufacturing sector;
- Have a basic knowledge of the Singapore Workplace Safety and Health requirements;
- Be able to follow written and oral work instructions;
- Be able to listen and speak English at a proficiency level equivalent to the Employability Skills System (ESS) level 3 and above;
- Be able to read and write English at a proficiency level equivalent to ESS level 3 and above;
- Be able to manipulate numbers at a proficiency level equivalent to ESS level 3 and above.

Training Medium:

This module can be conducted in either English or Mandarin.

Training Methodology:

This module is delivered through e-learning, lectures, group activities and demonstration.

Assessment Methodology:

Practical and oral/written assessments are conducted at the end of the training module.

Certification:

An individual who completes a module will be awarded a Statement of Attainment (SOA).