

Specification of Competency Standards
for the Manufacturing Technology Industry
Unit of Competency

Functional Area - Product Quality Control and Testing

Title	Calibration and preventive maintenance of measurement instruments and equipment
Code	106447L3
Range	This unit of competency is applicable to all quality control department of the corporation of Manufacturing Technology Industry. Practitioners should be capable to calibrate and preventatively maintain the measurement instruments and equipment in laboratory
Level	3
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of calibration and preventive maintenance of measurement instruments and equipment</p> <ul style="list-style-type: none"> • Understand the concept and importance of traceability in measuring instruments and equipment calibration. • Understand the principles, methods, techniques and importance of all kinds of measuring instruments and equipment calibration. • Understand the standard operating methods of relevant testing, calibration, adjustment of the measuring instruments and equipment and other relevant regulatory requirements. • Understand the environmental requirements of measuring instruments and equipment calibration. • Understand the preventive maintenance methods and ways of measuring instruments and equipment. • Understand the relevant professional qualifications which internal calibration can be carried out. <p>2. Carry out calibration and preventive maintenance of measurement instruments and equipment</p> <ul style="list-style-type: none"> • Identify within the enterprise needs to be corrected measuring instruments and devices (including internal and external calibration correction), the correction of the cycle, and the development of relevant calibration and maintenance plan • Select and apply appropriate calibration methods, and carry out calibration of measuring instruments and equipment • Communicate with external laboratory or institution, arrange external calibration of measuring instruments and equipment • Determine the precision and accuracy of measuring instruments and equipment are in valid range after calibration • Compile calibration reports and mark and label the measurement instruments and equipment • Calibrate the unqualified measuring instruments and equipment and arrange repair and maintenance <p>3. Professional handling of calibration and preventive maintenance of measurement instruments and equipment</p> <ul style="list-style-type: none"> • Follow the safety guidelines and relevant requirements, carry out calibration and preventive maintenance of measurement instruments and equipment • Ensure the measurement data is accurate
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to compile calibration records and mark and label the measurement instruments and equipment

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	<ul style="list-style-type: none">• Capable to carry out calibration and preventive maintenance of measurement instruments and equipment, in accordance with relevant plans, guidelines and standards
Remark	