

Unit ID: I&C19

Domain

Control and Instrumentation

Title:

Maintain and service Mass/ Weight devices

Level: 3

Credits: 3

Purpose

This unit standard specifies the competencies required to maintain and service Mass/ Weight devices. It includes maintain mass/ weight devices and repair mass/weight devices

Special Notes

1. Entry information:

Prerequisite
 - None
2. Assessment evidence may be collected from a real or an simulated realistic in which Instrument and Control operations are carried out.
3. To demonstrate competence, minimum evidence of installation of at least one of each instrument relevant to this unit standard. Including cable identification and selection of cable types and sizes,
4. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' guidelines and instructions
4. Glossary of terms:
 - *specifications'* refers to any, or all of the following: manufacturers' specifications and recommendations, workplace specific requirements
5. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act 2007, No. 11, 2007
 - Regulations relating to the health & safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007
 - And all subsequent amendments.
6. Performance of all elements in this unit standard must comply with industry standards.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority website www.nta.com.na.

Elements and Performance Criteria

Element 1: Maintain mass/ weight devices

Range

Maintenance include and is not limited to making maintenance plans or charts, documents, device cleaning, lubrication, replacement of worn out parts and testing

Performance Criteria

1.1 Work instructions including job cards, diagrams specifications and operational details are obtained, confirmed and applied.

1.2 Inspection to detect abnormalities such as leaks, loose connections and corrosion is performed according to workplace procedures.

1.3 Function check of device to confirm proper operation is performed according to workplace procedures.

1.4 Devices cleaned using materials such as solvents, fine wire, abrasives and contact cleaners according to manufacturers' specifications.

1.5 Calibration of devices is verified according to maintenance procedures.

1.6 Equipment calibrated before returning to service according to workplace procedures.

Element 2: Repair mass/weight devices

Performance Criteria

2.1 Diagnostic tools and equipment are selected and used.

2.2 Fault inspections are carried out according to workplace procedures.

2.3 Device functions are checked for fault isolation according to device specifications.

2.4 Calibration check is performed according to workplace procedures.

2.5 Probable root causes and faults locations are identified and determined according to workplace procedures.

2.6 Tools and equipment are selected and used.

2.7 Components are replaced according to workplace procedures.

2.8 Components inspected and cleaned according to manufacturers' specifications.

2.9 Devices are rebuilt to replace worn components according to workplace procedures and original component specifications.

2.10 Devices are calibrated according to manufacturers' specifications.

2.11 Environmental protection requirements identified and applied in line with environmental legislation

Registration Data

Subfield:	Electrical Engineering
Date first registered:	
Date this version registered:	
Anticipated review:	
Body responsible for review:	Namibia Training Authority