

Domain	RIGGING	Unit ID: 933
Title:	Use and maintain engineering power tools	
Level: 2		Credits: 6

Purpose

This unit standard specifies the competencies required to select, use and maintain engineering power tools. It includes selecting and using engineering power tools, caring for and maintaining engineering power tools, checking on power supply connections to equipment, recognising and reporting problems and changes and/or malfunctions while working. This unit standard is intended for those who work in lifting machine operations environment.

Special Notes

1. All work is performed under constant supervision and according to workplace and workshop manual specifications and occupational health and safety and environmental legislation.
2. Assessment evidence may be collected from a real workplace, or an appropriate simulated realistic environment in which lifting machine operations are carried out.
3. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' specifications, guidelines and instructions.
4. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No. 11, 2007
 - Regulations relating to the Health and Safety of employees at work, 1997 and all subsequent amendment.

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 on www.nta.com.na.

Elements and Performance Criteria

Element 1: Select and use engineering power tools

Range

Engineering power tools may include but are not limited to drills (including pedestal drilling machines), grinders (including pedestal grinders), sanders, brushes, buffs, wrenches (including impact type), jacks, nibblers and saws (including power and band saws).

Performance Criteria

- 1.1 Appropriate power tools are selected for the job.
- 1.2 Correct safety precautions are taken while using power tools.
- 1.3 Appropriate attachments are selected for a particular application.
- 1.4 Problems are reported timorously to appropriate personnel.
- 1.5 Consequences of incorrectly using power tools, e.g. injuries are explained.
- 1.6 Risks and hazards related to the various power supply sources are explained.

Element 2: Care for and maintain engineering power tools

Range

Power tools maintenance may include but are not limited to replacing wearing parts and lubrication.

Performance Criteria

- 2.1 Power tools are cleaned, serviced, maintained and stored.
- 2.2 Power tools wearing parts are replaced and lubricated in line with manufacture's specifications.

Element 3: Check on power supply connections to equipment

Range

Power sources include electricity, compressed air and hydraulic power.

Performance Criteria

- 3.1 Lock out procedures is carried out if required.

3.2 Equipment are inspected and checked for power supply.

3.3 Any faulty on power source are rectified in line with safe working practices.

Element 4: Recognise and report problems, changes and malfunctions while working

Performance Criteria

4.1 Power tool used is checked for any defaults and malfunctioning.

4.2 Unsafe or faulty power tools and unsafe conditions are identified and corrective action taken.

4.3 Power tools are cleaned, serviced, maintained and stored.

Registration Data

Subfield:	Lifting, Shifting and Secure loads
Date first registered:	27 September 2012
Date this version registered:	27 September 2012
Anticipated review:	2015
Body responsible for review:	Namibia Training Authority