

<b>Domain</b>	<b>METAL FABRICATION-CORE</b>	<b>Unit ID: 232</b>
<b>Title:</b>	<b>Operate portable metal fabrication power tools</b>	
<b>Level: 2</b>		<b>Credits: 8</b>

### Purpose

This unit standard specifies the competencies required to operate portable metal fabrication power tools. It includes the selection and inspection, as well as the safe use of portable metal fabrication power tools. The unit standard is intended for those who work as welders and boilermakers.

### Special Notes

1. Entry information

Prerequisite:

- *Unit 228* - Apply safety rules and regulations in a metal fabrication work environment or demonstrated equivalent knowledge and skills.
2. To demonstrate competence, at a minimum, evidence is required of the correct use of eight different portable metal fabrication power tools. These tasks should be performed ensuring correct identification of requirements and finishing of the tasks, correct selection and use of appropriate processes, and completing all work to specification.
  3. Portable metal fabrication power tools include but are not limited to drilling machines, grinders, pipe cutters, nibbles, jig saws, impact wrench skills saws, pneumatic driven tools and riveting guns.
  4. Performance of all elements in this unit standard must comply with manufacturers' specifications and workplace specific requirements.
  5. '*Specifications*' refers to any, or all of the following: manufacturers' specifications and recommendations, site and workplace specific requirements.
  6. Regulations and legislation relevant to this unit standard include the following:
    - Occupational Health and Safety Regulations No.18 1997
    - Labour Act 6 of 1992
 and all subsequent amendments.

### 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](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Select and inspect portable metal fabrication power tools**

#### **Performance Criteria**

- 1.1 Appropriate portable metal fabrication power tools are selected and inspected in accordance with the task requirements.
- 1.2 Unsafe and faulty tools are identified and marked for repair according to designated procedures.
- 1.3 Routine maintenance of tools is undertaken according to standard operational procedures.

### **Element 2: Complete tasks using metal fabrication power tools**

#### **Range**

Pre operational checks include but are not limited to checking cables, plugs, fluid levels and accessories.

#### **Performance Criteria**

- 2.1 Pre operational checks are conducted in line with manufacturers' specifications.
- 2.2 Personal protective clothing and equipment is selected and used in line with enterprise and legislative requirements.
- 2.3 Portable metal fabrication power tools are used to produce desired outcomes in line with job specifications.
- 2.4 All safety requirements are adhered to before, during and after use of portable power tools.
- 2.5 Portable metal fabrication power tools are cleaned, checked and stored safely in appropriate location in accordance with standard operating procedures and manufacturers' recommendations.

## **Registration Data**

<b>Subfield:</b>	Mechanical Engineering
<b>Date first registered:</b>	29 March 2007
<b>Date this version registered:</b>	29 March 2007
<b>Anticipated review:</b>	2012
<b>Body responsible for review:</b>	Namibia Training Authority