

<b>Domain</b>	<b>METAL FABRICATION-CORE</b>	<b>Unit ID: 229</b>
<b>Title:</b>	<b>Plan and organise metal fabrication work</b>	
<b>Level: 1</b>		<b>Credits: 2</b>

### Purpose

This unit standard specifies the competencies required to plan and organise metal fabrication work. It includes pre work planning, safe and efficient work sequencing as well as cleaning up. This 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. This unit standard is to be delivered and assessed in the context of metal fabrication operations and should be assessed in conjunction with other relevant technical unit standards selected from this domain.
3. To demonstrate competence, at a minimum, evidence is required of the planning, preparing, and sequencing of work and cleaning up for three separate metal fabrication tasks. These tasks should be performed ensuring correct identification of requirements and finishing of the tasks, correct selection and use of appropriate processes, tools and equipment and completing all work to specification.
4. Assessment evidence may be collected from a real workplace or a simulated real workplace or an appropriate simulated realistic environment in which welder and boilermaker operations are carried out.
5. Performance of all elements in this unit standard must comply with manufacturers' recommendations and workplace specific requirements.
6. '*Specifications*' refers to any, or all of the following: manufacturers' specifications and recommendations, site and workplace specific requirements.
7. Regulations and legislation relevant to this unit standard include the following:
  - Labour Act 6 of 1992
  - Occupational Health and Safety Regulations No.18, 1997
 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: Plan and prepare for work**

#### **Range**

Pre work planning includes but is not limited to correct selection of tools and equipment for the task, materials for the task, personal protective equipment for the task and planning the logical sequence of the task.

Planning and preparation include but is not limited to worksite inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

#### **Performance Criteria**

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Sign and barricade requirements are identified and adhered to.
- 1.4 Plant, tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement.
- 1.5 Material quantity requirements are calculated in accordance with plans and specifications.
- 1.6 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.
- 1.7 Environmental protection requirements are identified and applied in accordance with environmental plans and regulatory obligations.

## **Element 2: Sequence work**

### **Range**

Work sequencing may include but is not limited to receiving instructions, organising for task, carrying out task and cleaning up after completing task.

### **Performance Criteria**

- 2.1 Work plan is determined, modified and performed in a logical and efficient sequence.
- 2.2 Work tasks are completed to meet work instructions.

## **Element 3: Clean up**

### **Performance Criteria**

- 3.1 Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations and job specifications.
- 3.2 Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.

## **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