

**Domain****FITTING AND MACHINING****Title:****Use and maintain industrial machines used  
in the fitting and machining working  
environment****Level: 3****Credits: 15****Purpose**

This unit standard is intended for those who use and maintain industrial machines used in the fitting and machining working environment .People credited with this unit standard are able to Identify, select and inspect machines, operate industrial machine, maintain industrial machine.

This unit standard is intended for those who work in the fitting and machining working environment.

**Special Notes**

## 1. Entry information:

Prerequisite:

- Unit 1157 Demonstrate basic knowledge of work place health and safety

## 2. Glossary of terms:

Categories of industrial machines include but are not limited to:

- *Pedestal Machinery:* Drilling , Milling/Drilling, Boring and Grinding Machines
- *Manufacturing Machinery:* The Lathe ,Milling, and Shaping Machines CNC lathe
- *Processing Machinery:* Packaging Machines, Deboning Machine

## 3. To demonstrate competence, at a minimum, evidence is required of the safe and correct use of different machinery in undertaking the fitting and machining tasks.

## 4. This unit standard is to be delivered and assessed in the context of fitting and machining operations.

## 5. Assessment evidence may be collected from a real workplace or a simulated workplace in which fitting and machining operations are carried out.

## 6. Performance of all elements in this unit standard must comply with industry standards.

## 7. Regulations and legislation relevant to this unit standard include the following:

- Labour Act 2007(Act 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

### **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: Identify, Select and inspect machines**

##### **Performance Criteria**

- 1.1 Different types of machines are identified.
- 1.2 Machines are selected for work in accordance to the task requirement.
- 1.3 Pre-operational checks on machines are conducted in line with manufacturers' specifications.
- 1.4 Machines and machine guards are set up and adjusted to requirements.
- 1.5 Personal Protection equipment (PPE) are worn and used in line with workplace procedures.

#### **Element 2: Operate industrial machine**

##### **Performance Criteria**

- 2.1 Cutting tools and blades are selected and adjusted according to production.
- 2.2 Speed and feed rates of machine are determined according to the task.
- 2.4 Machine readiness is tested.
- 2.5 Safety requirements are adhered to when using operating on machines.

#### **Element 3: Maintain industrial machines**

##### **Performance Criteria**

- 3.1 Cleaning and routine maintenance of machines are undertaken in line with workplace procedures and manufacturers' recommendations.
- 3.2 Unsafe and faulty machines are identified, marked and reported in line with workplace procedures.

3.3 Machines are safely covered according to workshop procedures.

**Registration Data**

<b>Subfield:</b>	Mechanical Engineering
<b>Date first registered:</b>	29 November 2018
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<b>Body responsible for review:</b>	Namibia Training Authority