



# NC: Automotive Components: Manufacturing And Assembly

NQF 2\_SAQA 71950\_124 credits

## Purpose and rationale

This Qualification is for any individual who is, or wishes to be, involved in an automotive components environment. The Qualification contains all the skills, knowledge, values and attitudes required by a learner who needs to be able to perform a range of activities within a specific automotive components environment to support the manufacture and assembly of automotive components. An individual acquiring this Qualification will be able to contribute towards the efficient operation of the manufacturing and assembling processes in the automotive components sector. The duration is equal to 1240 notional hours of learning.

## Exit level outcomes

1. Operate and monitor machines in the automotive component or related environment;
2. Assemble or manufacture components and perform finishing operations; and
3. Demonstrate an understanding of Occupational Health, Safety and Environmental standards in the workplace.

## Learning assumed to be in place

Mathematical literacy and communication at NQF level 1, and engineering science at NQF level 1 or equivalent.

## Duration

1240 Notional hours of learning

## Primary/Delegated quality assurance functionary

MERSETA - Manufacturing, Engineering and Related Services Education and Training Authority

## Modules covered

Module 1:  
Communication  
20 credits

Module 2:  
Workplace numeracy  
16 credits

Module 3:  
Read and interpret basic  
engineering drawings  
14 credits

Module 4:  
Health, safety and  
environmental standards  
16 credits

Module 5:  
Machinery in the automotive  
component and related  
environment  
26 credits

Module 6:  
Automotive components  
manufacturing and assembly  
32 credits

## Unit standards covered in this learning programme

### 1. Communication (20 credits)

Fundamental	<a href="#">119463</a>	Access and use information from texts	Level 2
Fundamental	<a href="#">119454</a>	Maintain and adapt oral/signed communication	Level 2
Fundamental	<a href="#">119460</a>	Use language and communication in occupational learning programmes	Level 2
Fundamental	<a href="#">119456</a>	Write/present for a defined context	Level 2

### 2. Workplace numeracy (16 credits)

Fundamental	<a href="#">9009</a>	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	Level 2
Fundamental	<a href="#">7480</a>	Demonstrate understanding of rational and irrational numbers and number systems	Level 2
Fundamental	<a href="#">9008</a>	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	Level 2
Fundamental	<a href="#">7469</a>	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2
Fundamental	<a href="#">9007</a>	Work with a range of patterns and functions and solve problems	Level 2

### 3. Read and interpret basic engineering drawings (14 credits)

Core	<a href="#">335860</a>	Read and interpret engineering drawings	Level 2
Elective	<a href="#">335897</a>	Mark off regular engineering shapes (previously 9881)	Level 2

### 4. Health, safety and environmental standards (16 credits)

Core	<a href="#">259597</a>	Explain emergency preparedness and response procedures	Level 2
Core	<a href="#">259604</a>	Verify compliance to safety, health and environmental requirements in the workplace	Level 2
Elective	<a href="#">12483</a>	Perform basic first aid	Level 2
Elective	<a href="#">119567</a>	Perform basic life support and first aid procedures	Level 1

### 5. Machinery in the Automotive Component and Related environment (26 credits)

Core	<a href="#">10252</a>	Identify, inspect, use, maintain and care for engineering hand tools	Level 2
Core	<a href="#">335859</a>	Operate and monitor production machines	Level 2
Core	<a href="#">335896</a>	Prepare surfaces	Level 2

### 6. Automotive components manufacturing and assembly (32 credits)

Core	<a href="#">335855</a>	Assemble or manufacture components	Level 2
Core	<a href="#">259737</a>	Complete finishing operations and dispatch product	Level 2
Elective	<a href="#">119753</a>	Perform basic welding/joining of metals	Level 2