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## Overview

This NOS is about the basic use of tools, materials and fabrications relevant to the Automotive Sector. This NOS is also about interpreting information, adopting safe and healthy working practices and selecting tools, materials and equipment. This NOS is for those working in technical support roles and is also appropriate for workshop planners.

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## Performance criteria

You must be able to:

1. select and use suitable personal protective equipment appropriate to the task
2. interpret the information supplied relating to the task
3. carry out pre-start preparation inspections on tools and equipment in accordance with approved procedures
4. carry out operations using tools and equipment in accordance with safe working practices to achieve the work outcome
5. highlight and identify problems associated with tools and equipment to the relevant person
6. demonstrate work skills to manufacture and repair components using measure, mark out, file, fit, tap, thread, cut, drill, finish, position and secure
7. use and maintain the relevant tools and equipment
8. dispose of waste in accordance with relevant legislation including environmental to maintain a clean work space
9. carry out checks in accordance with manufacturer's/operator's guidance, schedules, relevant legislation and official guidance and relevant organisational requirements.
10. demonstrate correct selection of materials for manufacture or repair
11. inspect, clean and store tools and equipment after use

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## Knowledge and understanding

You need to know and understand:

1. the relevant organisational procedures developed to report and rectify inappropriate information and unsuitable resources, and how they are implemented
2. the types of information, their source and how they are interpreted
3. the relevant organisational procedures to solve problems with the information and why it is important they are followed
4. the relevant legislation and official guidance and how it is applied
5. what the accident reporting procedures are and who is responsible for making the reports
6. why and when personal protective equipment (PPE) should be used
7. the relevant requirements for the disposal of waste, used materials and debris taking into account relevant environmental factors
8. material properties relevant to the task and their appropriate applications
9. the appropriate use of materials for fabrication and repair
10. how to file, fit, tap, thread, cut and drill materials you are working on
11. how to select and use gaskets, sealants, seals, fittings and fasteners

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**Scope/range**

1. Tools and equipment are:
  - a. hand tools
  - b. electrical
  - c. mechanical
  - d. pneumatic
  - e. hydraulic
  
2. Motor Vehicle could include:
  - a. Light Vehicles
  - b. Heavy Vehicles/Commercial Vehicles
  - c. Motorcycles
  - d. Lift Trucks
  - e. Heavy Vehicle Trailers
  - f. Caravan and Motorhomes

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**Developed by** IMI

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**Version Number** 2

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**Date Approved** October 2014

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**Indicative Review Date** October 2017

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**Validity** Current

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**Status** Original

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**Originating Organisation** IMIARB4

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**Original URN** IMIARB4

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**Relevant Occupations** Automotive Aftermarket Electrical Enhancement Technician (Automotive); Auto-electrical Technician (Automotive); Body Builder (Automotive); Body Builder Workshop Controller (Automotive); Body Repair and Alignment Technician (Automotive); Body Repair Technician (Automotive); Caravan and Motorhome Diagnostic Technician (Automotive); Caravan and Motorhome Service Technician (Automotive); Caravans and Motorhomes Diagnostic Technician (Automotive); Caravans and Motorhomes Service Technician (Automotive); Cosmetic Refinishing Technician (Automotive); Cosmetic Senior Refinishing Technician (Automotive); Heavy Vehicle Diagnostic Technician (Automotive); Heavy Vehicle Fleet/Service Manager (Automotive); Heavy Vehicle Master Technician (Automotive); Heavy Vehicle Service Technician (Automotive); Heavy Vehicle Trailer Diagnostic Technician (Automotive); Heavy Vehicle Trailer Fleet/Service Manager (Automotive); Heavy Vehicle Trailer Master Technician (Automotive); Heavy Vehicle Trailer Service Technician (Automotive); Lift Truck Service Technician (Automotive); Lift Truck Trailer Diagnostic Technician (Automotive); Lift Truck Trailer Master Technician (Automotive); Lift Truck Workshop Controller ; Light Vehicle Diagnostic

Use of tools and equipment in Motor Vehicle Environments
 

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Technician (Automotive); Light Vehicle Fleet/Service Manager (Automotive);  
 Light Vehicle Master Technician (Automotive); Light Vehicle Service Technician  
 (Automotive); Maintenance and Repair Technicians; Maintenance Electrician;  
 Mechanical, Electrical and Trim Assistant Technician (Automotive); Mechanical,  
 Electrical and Trim Technician (Automotive); Motor Repair and Rewind  
 Electrician; Motorcycle Diagnostic Technician; Motorcycle Master Technician  
 (Automotive); Motorcycle Service Technician; PDR Technician (Automotive);  
 PDR Senior Technician (Automotive); Roadside Assistance Operator; Roadside  
 Assistance Operators; Roadside Assistance Senior Operator; Roadside  
 Assistance Senior Technician; Roadside Assistance Technician; Tyre Fitting  
 Operations (Automotive); Tyre exhaust and windscreen fitters ; Vehicle Fitters;  
 Vehicle Fitting Operations (Automotive); Vehicle Recovery Operator; Vehicle  
 Recovery Operators; Vehicle Recovery Technical Operator

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**Suite**

Accident Repair - Body; Accident Repair - Joining; Accident Repair -  
 Mechanical, Electrical and Trim; Accident Repair - SMART - Cosmetic;  
 Accident Repair - SMART - PDR; Auto Electrical and Mobile Electrical  
 Installation; Body Building; Maintenance and Repair - Heavy Vehicle;  
 Maintenance and Repair - Heavy Vehicle Trailer; Maintenance and Repair - Lift  
 Truck; Maintenance and Repair - Light Vehicle; Maintenance and Repair -  
 Motorcycle; Maintenance and Repair - Caravans and Motorhomes;  
 Maintenance and Repair - Motorcycle; Vehicle Recovery; Vehicle Fitting

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**Keywords**

Tools, Equipment, Motor Vehicle Engineering

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