Set up and maintain diagnostic equipment and technical information system support in light vehicle environments



# **Overview**

This NOS covers the updating of technical information systems and diagnostic equipment. It also includes testing for, and rectifying, equipment and system problems.

Set up and maintain diagnostic equipment and technical information system support in light vehicle environments



### Performance criteria

### You must be able to:

P1 use safe working practices when dealing with diagnostic equipment and technical information systems

P2 ensure installation of updates is carried out promptly following delivery

P3 load software correctly following the manufacturer's instructions P4 set the configuration options according to:

P4.1 manufacturer's specification

P4.2 your workplace procedures

P4.3 your workplace preferences

P5 take prompt and effective corrective actions to **resolve any errors** occurring during the loading of the software within the limits of your workplace responsibilities

P6 complete any specified product registration procedures within an agreed timescale and accurately, when necessary

P7 inform all relevant persons of the completion of the software installation promptly

P8 advise the relevant people of any new features and changes to existing functionality promptly

P9 effectively test the diagnostic equipment and technical information system using the specified self test function(s) to identify the **cause** and solution in the event of a **fault** 

P10 take prompt and effective actions to resolve any identified problems in diagnostic equipment and technical information systems using the self test instructions

P11 contact external support services only when the self test function fails to identify the **cause** of and solution to problems

P12 promptly and clearly inform the relevant person(s) of any unresolved loading **errors** and equipment problems

P13 source alternative diagnostic equipment if equipment has to be sent away for repair and inform the relevant person (s) promptly P14 inform the relevant person(s) promptly if equipment has to be sent away for repair

Set up and maintain diagnostic equipment and technical information system support in light vehicle environments



# Knowledge and understanding

You need to know and understand:

# Legislative and organisational requirements and procedures

K1 the legislation and workplace procedures relevant to:

K1.1 health and safety

K1.2 the environment (including waste disposal)

K1.3 appropriate diagnostic equipment, personal and vehicle protective equipment

K2 your workplace procedures for:

K2.1 obtaining diagnostic software updates

K2.2 loading technical information system and diagnostic software to specified destinations

K2.3 ordering and fitting diagnostic equipment and technical system equipment replacement and spare parts

K2.4 informing others that a technical / software update has taken place

K3 the importance of recording the version number / issue date of the software and updates used

K4 how to effectively **solve minor errors** in the loading of technical information system and diagnostic software

K5 how to accurately complete product registration procedures

K6 how to set the configuration options

K7 how to identify and resolve equipment and technical information system problems using the self test function(s) and external support services

K8 how to access system support services

K9 diagnostic equipment and technical information system software loading instructions

K10 the common types and **causes** of errors that can arise during loading of diagnostic equipment and technical information systems software

K11 the need for correct configuration settings

K12 the procedures for reporting problems

K13 the legal requirements governing the use of software

K14 why the prompt installation of software is important

K15 when to apply self test function(s)

Set up and maintain diagnostic equipment and technical information system support in light vehicle environments



K16 the importance of advising people of changes to diagnostic equipment functionality promptly
K17 the importance of reporting equipment / software **faults** and failures to the relevant person(s) promptly

Set up and maintain diagnostic equipment and technical information system support in light vehicle environments



# Scope/range

# 1. Causes of faults are:

- 1.1. mechanical
- 1.2. electrical
- 1.3. electronic

## 2. Faults cover:

- 2.1. software
- 2.2. hardware

Set up and maintain diagnostic equipment and technical information system support in light vehicle environments



# **Glossary**

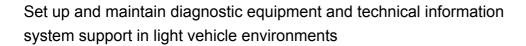
This section contains examples and explanations of some of the terms used but does not form part of the standard.

### **Problems:**

Examples include damaged leads, damaged ports, corrupt software, faulty equipment, lack of connectivity between vehicle and diagnostic test equipment, lack of connectivity between diagnostic test equipment and the workshop information system.

### Solving minor errors:

A suitable repair, replacement, re-coding or re-programming that rectifies the fault(s) identified





Developed by	IMI
Version Number	3
Date Approved	March 2020
Indicative Review  Date	March 2024
Validity	Current
Status	Original
Originating Organisation	IMI Ltd
Original URN	LV17
Relevant Occupations	Engineering; Vehicle Trades; Light Vehicle Diagnostic Technician (Automotive); Light Vehicle Master Technician (Automotive); Light Vehicle Fleet/Service Manager (Automotive); Managers and Senior Officials; Managers in construction
Suite	Maintenance and Repair - Light Vehicle
Keywords	Diagnostic; equipment; technical; information; system; support; motor; vehicle