

IMILV07

Diagnose and rectify light vehicle combustion engine and component faults



Overview

This NOS is about diagnosing and rectifying faults occurring in the vehicle combustion engine's mechanical, electrical, hydraulic and fluid systems.

Performance criteria

You must be able to:

P1 use suitable personal and vehicle protective equipment when using **diagnostic methods** and carrying out rectification activities

P2 support the identification of faults, by reviewing vehicle:

P2.1 technical data

P2.2 diagnostic test procedures

P3 prepare the vehicle systems and work area for safe working procedures as appropriate to the vehicle

P4 prepare, check and use all the required **equipment** following manufacturers' instructions

P5 use **diagnostic methods** which are relevant to the symptoms presented

P6 collect sufficient diagnostic information in a logical and systematic way to enable an accurate diagnosis of engine system **faults**

P7 identify and record any system deviation from manufacturer's tolerances accurately

P8 ensure your assessment of dismantled sub-assemblies, components and units identifies their condition and suitability for repair or replacement

P9 inform the relevant person(s) promptly where repairs are uneconomic or unsatisfactory to perform

P10 carry out all diagnostic and rectification activities following:

P10.1 manufacturers' instructions

P10.2 recognised repair methods

P10.3 your workplace procedures

P10.4 health, safety and environmental requirements

P11 work in a way which minimises the risk of:

P11.1 damage to other vehicle systems

P11.2 damage to other components and units

P11.3 contact with leakages

P11.4 contact with hazardous substances

P12 ensure all repaired and replacement components and units conform to the vehicle operating specification and any legal requirements

P13 adjust components and units, when necessary, correctly to ensure that they operate to meet system requirements

P14 record and report any additional **faults** you notice during the course of work promptly

P15 use testing methods which are suitable for assessing the performance of the

system rectified

P16 ensure the rectified engine system performs to the vehicle operating specification and any legal requirements prior to return to the customer

P17 ensure your records are accurate, complete and passed to the relevant person(s) within the agreed timescale and in the format required

P18 complete all system diagnostic activities within the agreed timescale

P19 report any anticipated delays in completion to the relevant person(s) promptly

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Knowledge and understanding

You need to know and understand: