Liaise with light vehicle and product manufacturers and suppliers on technical matters



Overview

This NOS covers obtaining and providing information to and from light vehicle and component manufacturers and suppliers for diagnostic activities, warranty activities, repairs and to support product development.

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Performance criteria

P1 be aware of current technical developments and information for the You must be able to: vehicles you handle P2 seek assistance from manufacturers/suppliers only when the prescribed diagnostic processes have failed P3 provide information at the level of detail necessary and in a form and manner which the recipient will understand and accept P4 report technical problems and quality issues promptly in line with manufacturer's/supplier's requirements P5 collect sufficient, detailed information on the vehicle, the problem and action taken prior to contacting the manufacturer/supplier P6 ensure requests for information to manufacturers/suppliers are made clearly and promptly P7 respond to requests for information from manufacturers/suppliers within the specified timescale P8 ensure all information received from manufacturers/suppliers is passed on to the relevant person(s) promptly P9 report any anticipated delays in obtaining or providing information to the relevant person(s) promptly P10 ensure your reports and technical information are complete, accurate and in the format required P11 suggest possible methods for improving the reporting process to your manager, when necessary P12 carry out your reporting in an effective and efficient manner that is not detrimental to the smooth running of the workshop

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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 personal and vehicle protective equipment

K2 legal requirements relating to the vehicle (including road safety requirements)

K3 your workplace procedures for:

- K3.1 recording fault location and correction activities
- K3.2 reporting the results of tests

K3.3 the referral of problems

- K3.4 reporting delays to the completion of work
- K3.5 gaining up to date technical information and repair methods

K3.6 recording contact with manufacturers and suppliers K4 the importance of working to recognised diagnostic procedures and processes and obtaining the correct **information** for diagnostic activities to proceed and how to formulate and construct your own diagnostic procedures and processes in order for diagnostic activities to proceed

K5 the importance of documenting diagnostic and rectification **information**

K6 the importance of working to agreed timescales and keeping others informed of progress and delays

K7 the relationship between time, costs and profitability

Electrical and electronic principles

K8 the hazards associated with working on or near high energy electrical vehicle components

K9 electrical and electronic principles including types of sensors and actuators, their application and operation

K10 how electrical and electronic vehicle systems operate, including electrical component function, electrical inputs, outputs, voltages and oscilloscope patterns, digital and fibre optics principles

K11 the interaction between electrical, electronic, mechanical and hydraulic/pneumatic components and systems within a vehicle, including multiplexing

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K12 electrical symbols, units and terms K13 electrical safety procedures

Use of diagnostic and rectification equipment

K14 how to prepare and check the accuracy of diagnostic testing equipment

K15 how to use diagnostic and rectification equipment for mechanical, electrical, electronic, hydraulic/pneumatic and fluid systems, specialist repair tools and general workshop equipment

Vehicle faults, their diagnosis and correction

K16 how vehicle mechanical, electrical, electronic, hydraulic/pneumatic and fluid systems are constructed, dismantled, reassembled and operate

K17 the types and causes of vehicle mechanical, electrical, electronic, hydraulic/pneumatic and fluid system, component and unit faults and failures

K18 vehicle mechanical, electrical, electronic, hydraulic/pneumatic and fluid component and unit replacement procedures, the circumstances which will necessitate replacement and other possible courses of action K19 how to find, interpret and use sources of **information** on vehicle mechanical, electrical, electronic, hydraulic/pneumatic and fluid system specifications, diagnostic test procedures, repair procedures and legal requirements

K20 how to select the most appropriate diagnostic testing method for the symptoms presented

K21 how to carry out systematic diagnostic testing of vehicle mechanical, electrical, electronic, hydraulic/pneumatic and fluid systems

K22 how to interpret, evaluate and analyse test results and vehicle data in order to identify the location and cause of vehicle system faults K23 how to carry out the rectification activities in order to correct faults in the vehicle mechanical, electrical, electronic, hydraulic/pneumatic and fluid systems

K24 your workplace procedure and policy for:

K24.1 work carried out under warranty

K24.2 liaising with manufacturers and outside agencies K25 the relationship between test methodology and the faults repaired

- the use of appropriate testing methods

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K26 how to make cost effective recommendations for rectification

Personal Skills

K27 how to communicate effectively with manufacturers/suppliers, managers, colleagues and customers
K28 how to access the reporting system
K29 how to process **information** and compile reports
K30 when it is appropriate to contact the manufacturer/supplier
K31 the limits of your authority and that of the designated personnel when liaising with the manufacturer/supplier

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Scope/range

1. Information may be about any of the following:

- 1.1. mechanical fault finding
- 1.2. electrical fault finding
- 1.3. electronic fault finding
- 1.4. hydraulic fault finding
- 1.5. customer handling
- 1.6. road testing
- 1.7. time
- 1.8. tools
- 1.9. equipment
- 1.10. materials
- 1.11. technical information

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| 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 | LV16 |
| 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 |
| Suite | Maintenance and Repair - Light Vehicle |
| Keywords | Liaise; light; vehicles; product; manufacturers; technical; warranty |