

JOB ROLE – AUTOMOTIVE SERVICE TECHNICIAN

Sector: Automotive
(Qualification Pack Code : **ASC/Q01402**)



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UNIT 1 : Service Manual

Session 1: Service manual of respective vehicle

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Session Objectives

1. The student will be able to understand importance of Service Manual.
2. Able to identify the number of item in Service Manual.

Introduction

Automobile is a complex unit of machinery. This requires regular services to maintain in originality in performance, appearance, control, and safety efficiency.

The manufacturers develops service manual which gives clear cut ideas of their product, like material used specification, service limit, span life of component, storage life and sequences to overhaul etc.

The service manual describes the following areas of a vehicle

1. Expanded view of an unit/assembly
2. Name of parts with part number
3. The specification of each part and their tolerances in assembly
4. Sequencing of disassembly and precaution
5. Sequencing of assembly with tolerance, play adjustment etc.
6. Testing procedures and workability.
7. Maintenance schedule
8. Replacement limit of components
9. Trouble shooting chart
10. Use of special tools and their part number
11. Correct quantity and accurate grade of lubricants used in different assemblies.

Content of Manual

Manual consists of the following contents which may be followed while using service manual in a workshop or home.

- Index
- Page number
- Expanded view of assembly
- Disassembly sequence
- Tolerances, gauges, sizes of components
- Serviceability
- Life span
- Decision for Repair or Replacement
- Assembly procedure and
- Working test procedure

Summary

In this session you have learnt about service manual of a vehicle. The manufacturers develops service manual which gives clear cut ideas of their product, like material used specification, service limit, span life of component, storage life and sequences to overhaul etc. The service manual helps to teach the technicians to work on the vehicle systematically to solve the problems as well as to provide service to maintain originality.

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