

JOB ROLE – AUTOMOTIVE SERVICE TECHNICIAN

Sector: Automotive
(Qualification Pack Code : ASC/Q1401)



PSS Central Institute of Vocational Education
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Unit – 1: Automobile and their Components
Session 9 : Steering System

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Session Objectives

1. The student will be Able to explain steering system
2. After this Session student Can identify the components of steering system.

Introduction

Role of Steering is to turn the front wheels using a hand-operated steering wheel which is positioned in front of the driver. It consists of steering column, universal joints to allow it to deviate somewhat from a straight line.

Functions of Steering System

1. It helps in swinging the wheels to the left or right.
2. It helps in turning the vehicle according to the will of the driver.
3. It provides directional stability.
4. It helps in controlling wear and tear of tyres.
5. It helps in achieving the self-straightening effect.

Functions of Steering System

6. It converts the rotary movement of the steering wheel into an angular turn of the front wheels.
7. It multiplies the effort of the driver by leverage in order to make it fairly easy to turn the wheels.
8. It absorbs a major part of the road shocks thereby preventing them to get transmitted to the hands of the driver.

Various components of steering system

- Steering wheel
- Steering column
- Steering linkage with universal joint
- Steering gear box
- Drop arm
- Tie rod
- Steering arm
- Track rod with adjuster

Summary

In this session you have learnt a following , Role of Steering , suspension System . Steering is to turn the front wheels using a hand–operated steering wheel which is positioned in front of the driver.

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