



Motor Vehicle Maintenance & Inspection



Introduction:

Proper maintenance includes, among other things, ensuring that lamps and reflectors are working, and tires are not worn. Some example roadside safety violations that may cause road accidents include operating an out-of-service vehicle or operating a vehicle with inoperative brakes, lights, and other mechanical defects, and failure to make required repairs. This course sets the stage for a greater understanding of motor vehicle maintenance and inspection activities. The course was designed specifically for managers, servicemen, inspectors and technicians who operate and maintain motor vehicles.

Understanding critical information about performing a vehicle inspection, filling out a vehicle inspection report, and the consequences of a roadside inspection, helps protect your equipment, your drivers, and your organization's reputation. This program is designed to improve the maintenance oversight of fleets of transit vehicles. Vehicle Inspections and maintenance can help you control costs and keep drivers safe on the road.

A properly executed vehicle inspection can help you learn about:

- Unsafe conditions before they cause accidents or crashes

- Mechanical problems before they lead to costly breakdowns
- Avoiding being placed out of service during a roadside inspection, or being subject to infractions and fines
- Inspection and repair of vehicle lighting units
- Checking and maintaining vehicle lubricant levels
- Inspection and maintaining vehicle wheels and tyres
- Basic repairs and servicing techniques including removal and checking of spark plugs, oils, filters and routine brake servicing

Who Should Attend?

Fleet Managers, Fleet Supervisors, Vehicle Inspectors, Fleet Operators, Fleet Inspectors, Mechanics, Chief Mechanics, Foremen, Supervisors, Services department in general and transport workers, anyone want to develop his skills in this field

Course Objectives:

By the end of this course delegates will be able to:

- Have a professional advice on selecting best vehicles for the job, tracking costs and repairs
- Develop maintenance standard and organizing the fleet for maximum efficiency
- Learn about the day-to-day activities which take place in a garage
- Know how the different systems, engines, chassis, suspension, etc. operate and are maintained
- Service vehicles and carry out checks and maintenance according to the manufacturers' guidelines
- Repair and replace faulty parts and components
- Maintain repair and service records
- Better diagnose the cause of a problem
- Be more able to repair the problem in line with manufacturers' standards
- Test existing and repaired systems
- Check for problems in newer vehicles with testing equipment connected to the vehicle's electronic control unit
- Ensure that all vehicles are road worthy

Course Outline:

- Importance of fleet maintenance
- Reasons for proper inspection and preventive maintenance
- Principles of vehicle safety inspection
- Vehicle safety inspection testing
- Relationship between maintenance and operations
- The manager's role in maintenance
- Regular preventive maintenance inspections
- Tyres, brakes, steering and suspension systems fault diagnosis and routine maintenance
- Tyre wear patterns that indicate faults in other systems
- Types and routine maintenance for wheel bearings
- Faults in braking and suspension systems
- Operating principles and routine maintenance for power steering systems
- Engine fault diagnosis and routine maintenance
- Faults for spark ignition and diesel engines, mechanical, cooling and internal heating and air filtration systems
- Adjustment methods for fuel injected and carburetor systems, diesel injection systems
- Operation and common faults for electronic and conventional ignition systems
- Transmission fault diagnosis and routine maintenance
- Common faults in final drives and drive shaft systems
- Operating principles and routine maintenance for automatic and manual transmission and clutch systems
- Electrical and electronic systems fault diagnosis and routine maintenance
- Common faults and testing methods for battery charging, starting and auxiliary systems
- Health and safety measures and practices
- How to reduce risks in the automotive environment