

Course Name : REPAIR AND MAINTENANCE OF DIESEL ENGINE

Course Code No: 7:01

Duration: 2 Weeks

Theory

- Classification of engines
- Latest development on diesel engines
- Principle of two stroke & four stroke engine
- Engine components
- Scavenging of IC Engines
- Lubrication system
- Cooling system
- CRDI system
- Basic hydraulic and control valves
- Emission Control
- Euro Emission Norm
- Turbo charged Engine
- Type of Maintenance
- Engine Diagnostic

Practical

- Starting the diesel engine & set the idle rpm
- Check the compression pressure on the engine
- Dismantling the engine
- Cylinder head overhauling
- Camshaft overhauling
- Assembling the engine
- Set the valve timing
- Set the engine analyzer start the engine

Course Name : REPAIR AND MAINTENANCE OF PETROL ENGINE

Course Code No: 7:02

Duration: 2 Weeks

Theory

- Classification of engines
- Latest development on petrol engines
- Principle of two stroke & four stroke engine
- Engine components
- Lubrication system
- Cooling system
- MPFI system
- Fuel injection System and types of sensors
- Basic hydraulic and control valves
- Emission Control
- Euro Emission Norm
- Type of Maintenance
- Engine Diagnostic

Practical

- Trace out petrol fuel feed system and start the engine
- Dismantling the Engine, cleaning and inspection of all parts.
- Practical on Fuel injection system.
- Cylinder head overhauling
- Camshaft overhauling
- Assembling the engine
- Set the valve timing
- Set the engine analyzer start the engine

Course Name: OVERHAULING & TESTING OF FUEL PUMP

Course Code No: 7:03

Duration: 2 Weeks

Theory

- Specification of fuel
- Principle of FIP and applications in latest engine
- Types of combustion chamber.
- Principle of Electrical and mechanical fuel pumps
- Maintenance of Electrical and mechanical fuel pumps
- Types of fuel filters and their maintenance
- Types of fuel injectors and types of governors and their working principle.
- Working principles of inline pump and their maintenance
- Electronic fuel injection system used in latest vehicle and Periodical maintenance
- Emission control & EGR System

Practical

- Trace out diesel fuel feed system
- Dismantling and inspection of pump components
- Testing of Injectors.
- Reassembling of FIP
- Testing of pump/phasing and calibration of pump.

Course Name : REPAIR AND MAINTENANCE OF CAR A.C

Course Code No: 7:04

Duration: 1 Week

Theory

- Basic Refrigeration Cycle
- Status of the refrigerant in every spot Basic electricity related to with circuit
- Connection diagram of CAR A/C
- Testing of the components
- Recovery of the refrigerant
- About Ozone depletion
- Emission control & EGR System

Practical

- How the Compressor work with Engine
- Component used in CAR A/C
- Tracing out connection diagram of CAR A/C
- Rewiring, run the set.
- Good installation practice
- Servicing of HFC CAR A/C Servicing of HC CAR A/C
- Involve recovery, dismantling, evacuation, charging
- Fault Finding, Performance testing