

Diesel Engines and injection systems

This course is aimed at Engineers and Technicians. To add value when performing development and validation testing; and to acquire an understanding of the operating principles of Diesel fuel injection systems

A two day course

Course Contents:

~~///~~ Diesel combustion principle

?? In-Line Pump

~~///~~ Plunger stroke phase

?? Delivery valves

?? Design and construction

?? Fuel delivery system

??Distributor fuel injection pumps

?? Sub-assemblies and their functions

?? Low pressure stage

?? High pressure stage

?? Distributor head

?? Engine speed control

?? Injection timing

?? Add on modules

??Common Rail System

?? Low pressure system

?? Pressure control valve

?? Rail

?? Injector

?? Activation and timing

?? Flow characteristics

?? System sensors

??Closed loop control

??Unit Injector

?? Pilot injection

?? Main injection

?? Activation pulse

??Governors for inline pumps

??Nozzles and nozzle holders

~~///~~ Pintle nozzles

~~///~~ Nozzle hole types

~~///~~ Sac hole types

~~///~~ Nozzle holders

~~///~~ Nozzle instrumentation

