

REC-BOSCH

JOINT CERTIFICATION COURSE

CENTRE OVERVIEW:

Rajalakshmi Engineering College and Bosch have come together to set up a state of the art Joint Certification Centre at REC premises to provide Automotive aftermarket Training. The Centre has been equipped with the latest Analyzers and Test/Work Benches across Diesel and Auto Electrical strands. This Joint Certification Center aims to provide hands on experience for all its trainees on current technologies that are in use in the Industry.

VISION:

To be a center of excellence in Automotive Training by imparting relevant skills with state of the art equipments.

MISSION:

- Interact with all the stakeholders to design and deliver curriculum that is relevant to the industry.
- Provide students with Hands on exposure on technologies that bridge the industry-academia gap.



INFRASTRUCTURE IN THE TRAINING CENTRE

- Test bench for Inline and rotary Pump Calibration.
- Test bench for Testing Electrical
- Battery Tester (BAT 121).
- Vehicle Engine Analyzer (FSA740).
- In-line Fuel Injection Pump.
- A/C Reconditioning & Filling Gas (ACS650).
- Live Petrol & Diesel Engine for
- Distributor-type Fuel Injection Pump.
- State of the art Air-conditioned Training Centre.



REC-BOSCH TRAINING PROGRAMMES

IN-PLANT TRAINING PROGRAM

COURSE CODE: REC-BOSCH-A (01,02,03)

DURATION: Five days | **DISCOUNTED FEE:** ~~INR 6,000~~ | INR 3,600

OBJECTIVE:

1. To develop competency in understanding the Diesel Fuel Injection Equipment with hands-on training.
2. To understand the Bosch Auto Electrical Products and Test Equipment.
3. To provide competent learning and thereby diagnose problem of the sensors in the Engine and Vehicle operating systems and also understand its working.

PARTICIPANTS:

Mechanical, Automobile Engineering students.

COURSE CONTENT:

- Working Principle, Dismantling, Assembling & Testing using FIE Test bench of PE (Multi-Cylinder Inline - Type) Fuel injection Pump and VE (Multi-Cylinder Distributor-Type) Fuel injection Pump.
- Calibration of VE and PE Pumps.
- Working Principle, Dismantling, Assembling & Testing of Bosch Auto Electrical Products like Starter motor & Alternator using AEL test Bench.
- Bosch Batteries - Construction and Working Principle, Features, Advantage and benefits, Product range, charging & Testing using BAT 121.
- Working Principle & Testing of sensors and Actuators in MPFI (Gasoline) & CRDi (Diesel) Engine using FSA 740.
- Working Principle & Testing of sensors and Actuators in Vehicle Applications



STAND ALONE TRAINING PROGRAMMES

1. COURSE ON DIESEL FUEL INJECTION EQUIPMENT

COURSE CODE: REC-BOSCH-01

DURATION: Two days | **FEE:** INR 2,000

OBJECTIVE:

To develop competency in understanding the Diesel Fuel Injection Equipment with hands-on training.

PARTICIPANTS:

Mechanical, Automobile Engineering students.

COURSE CONTENT:

- Working Principle, Dismantling, Assembling & Testing using FIE Test bench of PE. A type Multi-Cylinder Inline-Type Fuel injection Pump.
- Working Principle, Dismantling, Assembling & Testing using FIE Test bench of VE. A type Multi-Cylinder Distributor-Type Fuel injection Pump.
- Calibration of VE and PE Pumps.
- Introduction to CRDi engine and its working principles.



2. COURSE ON AUTO ELECTRICAL

COURSE CODE: REC-BOSCH-02

DURATION: One day | **FEE:** INR 1,000

OBJECTIVE:

To understand the Bosch Auto Electrical Products and Test Equipment.

PARTICIPANTS:

Mechanical, Automobile Engineering students.

COURSE CONTENT:

- Working Principle, Dismantling, Assembling & Testing of Bosch Auto Electrical Products like Starter motor & Alternator using AEL test Bench.
- Bosch Batteries - Construction and Working Principle, Features, Advantage and benefits, Product range, charging & Testing using BAT 121.



3. COURSE ON AUTO AIR-CONDITIONING

COURSE CODE: REC-BOSCH-03

DURATION: One day | **FEE:** INR 1,000

OBJECTIVE:

To develop competency in understanding the Bosch Auto Air-Conditioning systems and understand its working.

PARTICIPANTS:

Mechanical, Automobile Engineering students.

COURSE CONTENT:

- Functioning of Air-conditioner and components such as switch, sensor, actuator motor & control unit.
- Testing of system and Refrigerant Charging on vehicle with help of ACS 650
- Practical Operation in vehicles which are equipped with the above mentioned system.



4. COURSE ON VEHICLE AND ENGINE DIAGNOSING

COURSE CODE: REC-BOSCH-04

DURATION: Two days | **FEE:** INR 3,000

OBJECTIVE:

To provide competent learning and thereby diagnose problem of the sensors in the Engine and Vehicle operating systems and also understand its working.

PARTICIPANTS:

Mechanical, Automobile Engineering students.

COURSE CONTENT:

- Working Principle & Testing of sensors and Actuators in MPFI (Gasoline) Engine using FSA 740.
- Working Principle & Testing of sensors and Actuators in CRDi (Diesel) Engine using FSA 740.
- Working Principle & Testing of sensors and Actuators in Vehicle Applications.
- Practical Operation in Vehicles which are equipped with the above mentioned systems.



IMPORTANT INFORMATION

- New batch starts every Tuesday to Saturday.
- Working Hours: Tuesday to Saturday - 08:00 AM to 03:00 PM.
- Candidates are requested to make their own arrangement for boarding, lodging and transport. If any assistance is required, candidates may approach the training center.
- In order to maintain the quality of training (During practical demonstration classes), the number of candidates for each course is restricted to 15.
- Seats are reserved on a 'first-come-first-served' basis. • Photography is prohibited within the training premises.
- Although precautions are taken for the safety of the trainees, the company assumes no responsibility for any injury caused to them or loss of personal articles during the training period.
- Participants should not bring any storage device into the training Centre.

For additional information: Please Contact: REC-Bosch Training Centre, Rajalakshmi Engineering College, Rajalakshmi Nagar Thandalam, Chennai - 602 105.

Phone : +91 8667754311 / 044 3718 1015

Email : bosch.jcc@rajalakshmi.edu.in