J C Bose University of Science and Technology, YMCA, Faridabad

Department of Mechanical Engineering and Royal Enfield

Organizes a Value-added Training Program

On

Expert Module

(27 -31 June, 2 July 2022)

Course Objective: To provide the Insight knowledge of different engines of Royal Enfield Bikes by assembly and disassembly.

Day 1	**DAY 2**
Need to create enthusiasm among participants with brief introduction with brief introduction /LMS ID Verification Refresher training of REIGNITE Introduction Videos- (RE History, RE Brand) Pretest – Better to keep 10 questions (Through LMS) UCE Engine Disassemble Rectification of Clutch worn-out/ dragging- UCE Lubrication circuit explanation on engine- SB 197 discussed new oil pump Timing inspection and adjustment (valve timing)- UCE Ice - Breakers, Role play or Energizer Gears hard/gears slip / not engage UCE LMS (Function and Types of Lubrication, Function and Type of Clutch) Home Assignment (Function and Type of Gear)	Revision of previous day learning Measuring Instrument Refresher (Micrometer, Vernier caliper, Torque wrench, Multimeter) Dial Gauge & Cylinder bore Inspection process with the help of Bore gauge- UCE UCE Engine Assemble with Torque Chart value Himalayan D71 Engine / Vehicle Specifications / PMS Ice - Breakers, Role play or Energizer D71 Tappet Setting on Vehicle D71 Disassemble Self-Learning (Himalyan PMS) Home Assignment (Himalyan PMS)
Day 3	**Day 4**
Revision of previous day learning Lubrication circuit explanation on engine- D71	Revision of previous day learning T-stem Overhauling- Himalayan Tea Break

Rectification of Gears hard/gears slip– Himalayan, Rectification of all gear not engaging, Rectification of gear noise - Himalayan D71 Engine Assemble with Torque chart value Himalyan Engine Timing and Rectification of Clutch worn-out/ dragging- Himalayan Engine noise identification / type / source- on Himalayan Vehicle (Decibel meter) Ice - Breakers, Role play or Energizer Noise from front fork-- Himalayan and UCE fork Overhauling Noise identification and solve from Rear suspension overhauling (Rear Shocker & Chain Stay)- -UCE & Himalayan LMS (Basic Electricals) Home Assignment (Basic Electricals course completion)	Basic of Electricals (Battery, starting circuit, Charging circuit, Ignition circuit) Instrument cluster setting, Electrical specification check sheet Introduction of EFI All sensor, Actuators locations and explanation in BS6 UCE and D71. Explain Fuel supply system of EFI (Fuel Pump, Injector) MIL Reset process, Driving cycle Checking all sensors (Voltage, Resistance) based on technical specifications as per SOP, DOL Tool and SOP of Bike not starting properly, starting with difficulty LMS (Function of Brakes) Home Assignment (ABS)
Day 5 Revision of previous day learning Disc brake noise / disc brake jam/ wheel heat-up: UCE & Himalayan (Disc Brake Overhauling) ABS working, Front and Rear Bleeding procedure with DOL tool, ABS Problem diagnose EVAP System (UCE, D71) Engine Misfiring SOP Post Test and feedback through LMS/ Evaluation	

Skill Gain / Employability Opportunity

1. Practical knowledge of different types and parts of engines.
2. Candidates can work practically on different engines of bikes
3. Candidate detect the failure part of bike.

Duration: 5 days (7 hours per day)

Total :35 contact hours

No. of seats: 25

Who can apply: B. Tech and M. Tech Mechanical Engineering students who completed Basics of automobile Course.

Fee: This course is free for students of JCBUSTYMCA.

Selection criteria: Selection be based on the first come first served basis.

Certification: Certificate will be issued to eligible students as per criteria.

Link for registering the course: Link for registration: https://forms.gle/Uk1rAKMegjyfjnhQA

Last date: 25/5/2021

Venue: Center of excellence of Royal Enfield.

Faculty:

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Program coordinator:

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Program Chair:
Dr Rajkumar
Professor and Chairman, Department of Mechanical Engineering