

Basic Automotive Servicing (Two Wheeler)

Entry Qualification	:	8th std. onwards
Age	:	Minimum 14 years
Duration Of Course	:	150 hrs/ 3 Months
Course Fee	:	Rupees Six Hundred Only

Course Contents

Theory	Practical
<ul style="list-style-type: none"> <input type="checkbox"/> General health & Safety precautions to be observed in the workshop / garage <input type="checkbox"/> Over view on 5S technic (Sort, Set in order, Shine /Sweep, Standardise & Sustain)-advantages in implementation of 5S <input type="checkbox"/> Working principle of 2 & 4 stroke engines <input type="checkbox"/> Procedure for dismantling, cleaning & assembling of major assemblies of vehicle <input type="checkbox"/> Functions & Types of lubrication & cooling systems <input type="checkbox"/> Fuel system layouts (Petrol, diesel & CNG) <input type="checkbox"/> Functions of carburetor and adjustments <input type="checkbox"/> Procedure for dismantling, cleaning, checking & assembling a carburetor <input type="checkbox"/> Ignition system circuit & components <input type="checkbox"/> Brief introduction on battery and its maintenance <input type="checkbox"/> Purpose & types of clutch, gear box & brakes <input type="checkbox"/> General defects in clutch, Gearbox & brakes <input type="checkbox"/> Tyre designation (size) <input type="checkbox"/> Procedure for repairing the punctured tube Knowledge on micrometer, feeler gauge & dial gauges <input type="checkbox"/> Procedure for dismantling, inspecting / component checks, assembling, engine & transmission system (overhauling of an engine & transmission) <input type="checkbox"/> Do & Don't during over hauling of engine <input type="checkbox"/> Usage of the multimeter <input type="checkbox"/> Fundamental electrical principle <ul style="list-style-type: none"> - Ohm's Law - Series & Parallel resistances circuits - Working principal, application of transistors 	<ul style="list-style-type: none"> <input type="checkbox"/> Practice Health & Safety – select, use, maintain & store – tools, equipments & clothing safely <input type="checkbox"/> Practice 5S technic <input type="checkbox"/> Identify / Familiarize with the tools & equipments <input type="checkbox"/> Identify components of 2 wheeler from assembly drawings & diagrams <input type="checkbox"/> Water washing / cleaning of 2 wheelers <input type="checkbox"/> Clean/replace air cleaner, fuel strainers and oil filters <input type="checkbox"/> Drain & replenish lubricants <input type="checkbox"/> Remove, clean, check, refit/replace – fuel tank, fuel pipes, fuel tap operation <input type="checkbox"/> Clean, Check and Adjust spark plug <input type="checkbox"/> Replace brake components, adjust brake & top-up brake fluid <input type="checkbox"/> Adjust clutch play <input type="checkbox"/> Adjust, remove links & lubricate drive chain <input type="checkbox"/> Replace control cables – clutch, brake & accelerator cables – adjust clutch & brake plays <input type="checkbox"/> Charge the battery <input type="checkbox"/> Check pressure, inflate, measure tread depth, inspect for damage, do Wheel truing, Repair tyre puncture & Tuffe-up tube <input type="checkbox"/> Check and replace bulbs <input type="checkbox"/> Dismantle, clean, check, assemble and adjust carburettor <input type="checkbox"/> Clean intake and exhaust system <input type="checkbox"/> Test Ignition system, find faults & rectify Dismantle, clean, inspect/check, repair/replace & assemble engine components (Overhauling of engine) of different models <input type="checkbox"/> Dismantle, clean, check, repair and assemble – starter motor & starting system <input type="checkbox"/> Dismantle, clean, check, repair and reassemble –charging system <input type="checkbox"/> Check voltage regulator

<ul style="list-style-type: none"><input type="checkbox"/> Wiring colour-code<input type="checkbox"/> Working principle of starter motor & alternator<input type="checkbox"/> Electronic ignition system<input type="checkbox"/> Fault finding procedure in ignition system<input type="checkbox"/> Working principle of brakes (disc & drum brakes)<input type="checkbox"/> Procedure for handling bearings<input type="checkbox"/> Latest emission norms	<ul style="list-style-type: none"><input type="checkbox"/> Set Ignition timing<input type="checkbox"/> Overhaul Disc & drum brakes system<input type="checkbox"/> Dismantle wheel bearing, steering stem & ball race, inspect & assemble<input type="checkbox"/> Replace front fork oil / oil seals<input type="checkbox"/> Check the working condition of emission control devices<input type="checkbox"/> Do fine tuning & Test the vehicle
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PRINCIPAL
GOVT. I.T.I. NURPUR
DISTT. KANGRA (H.P.)