



Srednja poklicna in strokovna šola
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CAR MECHANIC JUNIOR

LJUBLJANA 2017

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Practical Tasks

Assignment N'1

Connecting electrical wiring to a tow hook (7-pin)

- Equipment / tools: screwdriver, multimeter
- Work piece: panel with light - signalling of a trailer

Assignment N'2

Pressure measurement and controlling the functioning of an air-conditioning device

- Equipment / tools: manometers (high and low pressure), nitrogen with appropriate nozzles for testing the leakproofness of the system
- Work piece: charging station, panel with air-conditioning (AC) system or vehicle with AC system

Assignment N'3

Connecting electrical installations on panels (connection of loads by the means of relays)

- Equipment / tools: multimeter, ties (leads) for construction of electrical installation
- Work piece: panel (Electronica Veneto) for connecting headlights, blinkers and wipers

Assignment N'4

Wheel alignment (status measurement and toe in /out correction)

- Equipment / tools: tools needed for wheel alignment and a car lift
- Work piece: vehicle

Assignment N'5

Compression measuring

- Equipment / tools: device for measuring compression, spark plug socket set
- Work piece: engine on a stand

Assignment N'6

Construction (designing) of a copper brake pipe (two contestants on one vehicle)

- Equipment / tools: 2 x vice, brake pipes, brake fluid, brake pipe spanner, brake bleeding bottle, flaring device and pipe bending device
- Work piece: vehicle on a stand

Assignment N'7

Measuring disc aeration

- Equipment / tools: comparator, trolley with basic tools, torque wrench
- Work piece: vehicle on a car lift

Assignment N'8

Setting the height and direction of headlights

- Equipment / tools: headlight tester, basic tools – screwdrivers, Allen keys, manometer, light bulbs (classic H7/H1), fuses
- Work piece: vehicle

Assignment N'9

Engine electronics diagnostics (simulation of a fault – engine does not start)

- Equipment / tools: Moto tester Bosch, Moto tester Texa
- Work piece: panel (simulator of OTTO engine performance)

Assignment N'10

Tyre replacement with time limitation (timing the fastest change with negative points for faults)

- Equipment / tools: tyre changer and wheel balancer, wheel balancing weights
- Work piece: 1 x rim, 2 x tyre 17 inch