

BEG-TM002

Engine control functions of Motronic ME/MED

Seminar contents

Day 1: Torque structure

System structure, torque model, torque reserve, torque demand, torque coordination, torque conversion – air path/rapid paths

Day 2: Air system

Physical based models, adaptation of residual gas values, charge control, charge determination, exhaust gas turbocharging, camshaft control

Day 3: Fuel system

Fuel pre-control, mixture adaptation, fuel supply system, DI high pressure control, injection output, injection cut-off, canister purging

Ignition system

Ignition timing and angle, engine knocking and knock control

Day 4: Exhaust system

Legislation, pollutant emissions, exhaust gas reduction on engine side, exhaust gas aftertreatment, catalytic converter heating, exhaust gas temperature model, storage catalytic converter control, lambda control

Participation details

Requirements

Basic knowledge of vehicle engines and engine management

Number of participants

Minimum 8, maximum 16

Duration

4 days
9 a.m. - 5 p.m. on first 3 days
9 a.m. - 3 p.m. on final day

Teaching method

Lecture, discussion, and exercise

Fee

€2,380

Seminar dates

On request