DRIVES
Development and Research on Innovative Vocational Education Skills

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FUTURE JOB ROLES

ENGINEERING AND RESEARCH & DEVELOPMENT

ADVANCED POWERTRAIN ENGINEER

Conventional powertrains cannot fulfill the legally required CO2 reduction without the help of electrification. Therefore, the OEMs need to bring an increased amount of hybrid vehicles (HEVs), battery electric vehicles (BEVs) and even fuel cell powered electric vehicles (FCVs) to the market.

To master these upcoming change in powertrain solutions, development engineers need new knowledge and skills and different development methodologies. A strong cooperation between mechanical, electrical and chemical engineering has to be established, which requires a better mutual understanding than in past decades.

The new advanced powertrain engineer, merging all above mentioned skills, shall work as a system architect and shall be capable to layout, specify and design alternative powertrains for future vehicles. This is an extension of existing mechanical and electronic engineering study programs.