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Working with cylinder pressure sensors

Seminar description
The accuracy of an indication measurement (pressure curve analysis) depends primarily on the quality of the pressure signals. The quality of the signals is not influenced by the sensor itself, but the way in which it is operated and installed. In an introductory presentation, the principle of cylinder pressure measurement in the combustion engine will be touched upon briefly, along with its significance for engine development. The lecture will focus on the setup, selection and various use scenarios of pressure sensors. For the practical part, cylinder head models, various pressure sensors and all of the required tools will be available to participants. Working in small groups under guidance, they will check sensor bores and learn the proper way to install the sensors. The practical exercises include cleaning the pressure sensors as well as insulation and function testing.

Seminar content
- Fundamentals of cylinder pressure measurement in the combustion engine
- Pressure sensor selection, installation and possible uses
- Practical exercises: checking of sensor bores, proper installation of sensors, cleaning, insulation and function testing

Goal
Participants will become familiar with the components and operation of the indication measuring chain, the relationship between pressure and volume in a cylinder and the essential parameters of an indication analysis.

Target group
Measurement technicians, test bench operators, design engineers

Prerequisite for participation
Practical experience with combustion engines

Duration
1/2 day

9:00 a.m.–1:30 p.m.

Seminar number
9966B11-2-5-1-2

This seminar can also be held on-site at your company upon request. Please inquire about dates and cost.

Register at:
training.de@kistler.com

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