

Content of training

- Introduction to the gasket technology
 - Demands on a cylinder head gasket
 - Influences on the cylinder head gasket
 - Cylinder head sealing systems
 - Sealing material
- Requirements of the current and future engine generations on the gasket technology – especially cylinder head gaskets
 - New cylinder head gasket made of Metal Layer Beads (MLS-Metaloflex®) and Metalelastomer
- Cylinder head gasket in case of engine repair
 - Surface inspection of cylinder head and cylinder block
 - Twisting of the cylinder head with motor block
 - Influence of the cylinder head bolts
 - Tightening instructions of cylinder head bolts: tightening torque – torque to yield
 - Influence of tightening tools
- Engine Damages
 - Cause of damage due to wrong handling
 - Apparent damages of cylinder head gaskets
 - Causes and effects on the cylinder head gasket
- Oil seals and valve stem seals
 - Designs
 - Elastomer materials
 - Specific installation features
- Sealing compounds and their applications
 - Applications
 - Chemical composition
 - “Which one can I use in which case?”

Training goal:

- Being able to safely and correctly seal cylinder heads and repair motors and aggregates
- Recognizing causes of damage
- Trouble shooting in case of gasket damage

Target audience: garage owner, master mechanics, mechatronics engineers and technical sales people

Duration: Approximately 2 1/2 to 3 hours (choice of main topics is possible)

**Sealing technology in
combustion engines,
aggregates
and industrial engines**



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