# **Engineering office Andreas Holl**

Training – Consulting – Workshops - Engineering Services

# **Hydrogen Workshop**

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# **Description**

Where should a check or safety valve be placed?
Why should we use double-block-and-bleed configurations?
Where O2 and H2 sensors should be installed?
How to integrate a purging system?

The Participants work in groups of up to 4 people.

During the workshop, the participants design and size a complete hydrogen supply system including nitrogen purging.

## Requirements:

Calculator / cell phone

Laptop

#### Level 1

Design and sizing of a hydrogen system from H2 production to gas treatment and storage in a low-pressure tank.

#### Level 2

Design and sizing of a high-pressure system from compression and gas distribution to high-pressure storage at 450 bar.

#### Level 3

Design and sizing of a pressure panel. Pressure reduction from 450 to 25 bar.

### Level 4

Design and sizing of a nitrogen purging system.

#### Level 5

Operation and safety.

# Level 6

Technically permanent leak tight regarding operation and maintenance.