

# Engineering office Andreas Holl

Training, consulting, engineering services

## Hydrogen Workshop

**Engineering office Andreas Holl**

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### Description

Where should a check or safety valve be placed?

Why should we use double-block-and-bleed configurations?

Where O<sub>2</sub> and H<sub>2</sub> 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 H<sub>2</sub> 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.