# Ingenieurbüro Andreas Holl

Conceptual Design - Engineering Services - Training - Consulting

# Hydrogen Workshop

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#### Beschreibung

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

The following questions will be addressed during our workshop:

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

# Participants work in groups of up to 4 people

Group work is encouraged during the workshop, fostering collaboration, idea exchange and shared problem-solving among participants.

#### Workshop Activity

Design and sizing of a complete hydrogen supply system including nitrogen purging. During the workshop, participants engage in designing and sizing a comprehensive hydrogen supply system, incorporating nitrogen purging

#### Requirements

Participants are required to bring a calculator/cell phone and a laptop/tablet

#### 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 tightness regarding operation and maintenance.

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