

Training course in Gas Flow Measurement and Gas Quality



Oil and gas industry: gas prospecting and gas production companies, gas transportation companies, gas storage companies, LNG terminals and storage.

Other industries: power and electricity plants, petrochemical industry, process industry. Suppliers of equipment, system integrators.

The four-day Gas Flow Measurement and Gas Quality training course is intended for employees who work for:

- Gas prospecting and gas production companies, on-shore and off-shore
- Gas transportation companies
- Gas storage companies (natural gas, CO₂)
- LNG terminals and storage
- Equipment suppliers
- System integrators
- Power plants
- Petrochemical industry
- Process industry

The training course requires a higher professional education/university education level.

The participants in the "Gas Flow Measurement and Gas Quality" training course are given the opportunity of expanding their knowledge level in the area of:

Fluid dynamics (introduction). How natural gas flows through a pipeline. Laminar and turbulent flow. The thermodynamic properties of natural gas, ideal gases and real gases. Typical composition. Phase transitions, dew point. Explosiveness. Measuring natural gas flow rate and natural gas composition (fundamental): accuracy, measurement uncertainty, economic considerations. Measurement techniques for measuring the flow rate of natural gas: turbine flow meter, ultrasonic meter, orifice meter. Gas analysis. Gas

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chromatograph. Fiscal gas metering station. Overview of the standards and norms for flow rate measurement, gas composition measurement, properties of natural gas, safe working practices. Gas pressure regulation, filter techniques. Various assignments are performed during the training course and there are opportunities for discussion.

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