



NEL

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Custody Transfer Measurement Systems Training Course



About the Course

A transaction involving physical transfer of oil and gas from one operator to another is known as Custody Transfer. Accurate metering of the fluids being transferred between the two is therefore of vital importance. This one day training course will enable metering engineers to gain a knowledge of how fluids are metered in the oil and gas sector.

National
Measurement
System





Introduction & Objectives

A transaction involving physical transfer of oil and gas from one operator to another is known as Custody Transfer. Accurate metering of the fluids being transferred between the two is therefore of vital importance. To ensure this happens, most countries set stringent uncertainty targets that have to be met by companies operating in their jurisdiction. To do this to the required accuracy requires a metering system, consisting of a range of components as well as the flow meter itself.

The type of components required include:

- temperature probes and transmitters
- Static pressure transmitters
- differential pressure transmitters
- Densitometers
- Meter provers
- Gas chromatographs
- Sampling systems
- Flow meters
- Flow computers

This course covers each of these components, how they work individually and how they fit into the measuring system as a whole. The course is ideal for metering engineers who wish to gain a knowledge of how fluids are metered in the oil and gas sector.

Who Should Attend

Anyone who is new to flow measurement both in a technical and non-technical capacity including technicians, engineers, sales people, administrators and managers. The course is intensive but will make an effective use of delegates' time.

Enquiries

The course is delivered regularly at various international locations, but is also available as an in-company (private) course. It includes comprehensive course notes which will form useful reference material in the future. Enquiries about course dates and delegate fees can be made by emailing events@tuvnel.com or by telephoning the Events Team on **+44 (0) 1355 593704**.

About NEL

NEL is a leading provider of measurement services to the world's Oil and Gas Industry, and is the custodian of the UK's National Standard for Flow Measurement. We provide services in;

- Measurement consultancy
- Meter development and calibration
- Flow metrology research and development
- Multiphase and wet gas testing
- Erosion
- Environmental
- CFD modelling
- Training and knowledge transfer



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Course Programme (Illustrative)

0830 – 0845 [REGISTRATION AND COFFEE](#)

It is not only the Meter

- Why custody transfer measurement is about more than the flow measurement alone

Module 1: Introduction and Overview

- Liquid and gas custody transfer metering systems

1030 – 1045 [TEA/COFFEE](#)

Module 2: Flow Meters

- Review of the meters used in custody transfer measurement

Module 3: Meter Provers

- Description of the methods used to calibrate the metering systems in-situ

1300 – 1400 [LUNCH](#)

Module 4: Density Measurement

- Gas and liquid density measurement in custody transfer systems

Module 5: Crude Oil Sampling

- Methods of acquiring representative oil samples for analysis

1515 – 1530 [TEA/COFFEE](#)

Module 6: Secondary Instrumentation

- Other measurements required in custody transfer flow measurement

Module 7: Flow Computers

- The computers used to manage the flow measurement data

1630 Q & A SESSION AND CLOSE



To enquire about this Course
please contact:

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