



NEL

Choose certainty.
Add value.

Fundamentals of Flow Measurement Training Course



About the Course

This one day course will cover the key aspects of flow measurement and will consider all general meter types and their applications.

The programme consists of modules presented by NEL staff. Also included is an introduction to the UK National Standards for flow measurement, and open discussion sessions where participants can raise work-place situations for dialogue and advice.

The course is intensive and, experience has shown, is one that makes the best use of delegates' time.

National
Measurement
System





Introduction & Objectives

Flow measurement is vital to many industrial sectors: water supply, oil extraction, gas distribution, and much of the process and pharmaceutical industry depend on flow measurement for quality control and custody transfer. To obtain the required level of accuracy at an appropriate price, it is crucial that the right meter is selected for the application and that it is appropriately used. However, the flow meter user is faced with a bewildering array of technologies and conflicting claims from manufacturers.

This foundation-level course is a pre-cursor to NEL's 3 day Principles and Practices of Flow Measurement Course and enables delegates to understand the issues surrounding flow measurement. It also provides the delegate with an unbiased view of the various technologies available and the basic knowledge required to make informed choices. Key aspects of flow measurement, all general meter types and their applications will be discussed and explained.

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.

Successful candidates will receive an ECITB accredited certificate.

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](#)

Module 1: The Basics of Fluid Flow

- An introduction to the basic theory of fluid flow and measurement technology

Module 2: Traditional Flow Measurement Technology

- A description of flow measurement techniques that are well established in industry

1005 – 1025 [COFFEE](#)

Module 3: Modern Flow Measurement Technology

- A description of modern or developing flow measurement technologies

1225 – 1310 [LUNCH](#)

Module 4: Multiphase Flow Metering

- An account of current multiphase flow metering

Module 5: Measurement Uncertainty

- A description of the basic theory of measurement uncertainty

1430 – 1450 [COFFEE](#)

Module 6: Meter Management

- A description of the techniques used to optimise meter performance

Module 7: Network Management

- The techniques used to efficiently manage and analyse data from a network of flow meters

1630 [Q & A SESSION AND CLOSE](#)



To enquire about this Course
please contact:

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