

Meter Proving & Metering System

Tunis (Tunisia)

18 - 22 December 2024

UK Traininig

PARTNER



Meter Proving & Metering System

Code: OG28 From: 18 - 22 December 2024 City: Tunis (Tunisia) Fees: 4400 Pound

Introduction

This course focuses on the principles and practical applications of metering systems. Participants will gain an in-depth understanding of fluid properties, various types of flow meters, and measurement techniques, including sampling and proving methods.

Course Objectives

By the end of this course, participants will:

- Understand the properties of fluids and the relevant gas laws related to metering systems.
- Learn the characteristics of accurate measurement and meter performance.
- Familiarize themselves with different types of flow meters and their applications.
- Gain insights into advanced metering technologies, including ultrasonic and Coriolis meters.
- Develop practical skills in measurement systems, sampling, and proving techniques.

Course Outlines

Day 1: Fundamentals of Fluid Properties and Measurement

- Properties of fluids: density, viscosity, and compressibility.
- Relevant gas laws Boyle's and Charles' laws.
- Overview of measurement systems.
- Factors affecting meter performance.
- Introduction to meter proving concepts.

Day 2: Differential Pressure and Positive Displacement Meters

- Principles and applications of differential pressure meters.
- Types of differential meters: orifice plates, Venturi, and flow nozzles.
- Positive displacement meters: lobes, gears, and nutating discs.
- Comparison of performance and accuracy.
- Troubleshooting and maintenance tips.

Day 3: Turbine and Ultrasonic Flow Meters

- Turbine flow meters: operating principles and applications.
- Key components of turbine meters and their functions.



- Ultrasonic flow meters: transit-time and Doppler methodologies.
- Advantages and limitations of ultrasonic meters.
- Applications in liquid and gas metering.

Day 4: Electromagnetic and Coriolis Flow Meters

- Principles of electromagnetic flow meters.
- Applications in water, wastewater, and industrial fluids.
- Overview of Coriolis mass flow systems.
- Applications in liquid and multiphase metering.
- Performance optimization and troubleshooting.

Day 5: Sampling, Proving, and Flow Computing

- Techniques for fluid sampling and quality control.
- Meter proving methods and equipment.
- Flow computing and data integration systems.
- Safety and environmental compliance in metering operations.
- Final review and practical exercises.



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Anney (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)
(Netherlands)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

Africa



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Pulau Ujong (Singapore)



Jakarta (Indonesia)



Amman (Jordan)



Beirut (Lebanon)



Blackbird Training Cities

Asia



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



BLACKBIRD
FOR TRAINING



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

UK Training

PARTNER

