TRAINING PROGRAMMES FOR THE YEAR 2026-27

SERIES: 270	LIQUID HYDROCARBON FLOW MEASUREMENT & CUSTODY TRANSFER	DURATION: 2 DAYS DATES: 17-18 DEC' 2026
Description	This training provides an introductory overview of flow measurement and calibration in the petroleum sectors. It covers the calibration of flowmeters used in the oil industry with practical case studies, calibration and proving of dispensers based on field experience, uncertainty estimation in flow measurement per ISO/NABL guidelines, model approval testing of flow meters and fuel dispensers, and the fundamentals of flow measurement for petroleum liquids. It also introduces ultrasonic and Coriolis mass flow meters in custody transfer (theory and practice), flow meter selection and installation effects, the importance of temperature, pressure, and density measurement, and includes laboratory demonstrations on flowmeter calibration. It gives participants a general awareness of how calibration practice, meter technology, and uncertainty assessment connect within the petroleum flow measurement chain		
Coverage	• Calibration of Flowmeters from Oil industry, Case Studies • Calibration / Proving of Dispensers, Field Experience • Uncertainty Estimation in flow measurement as per ISO / NABL Guidelines • Model Approval Testing of Flow Meters, Fuel Dispensers • Fundamentals of Flow Measurement for petroleum liquids • Ultrasonic Flow Meters and Coriolis Massflow-meters in Custody Transfer: Theory & Practice • Selection of Flow Meters, Installation effects on Flowmeters • Importance of Temperature, Pressure & Density measurement in for flow measurement • Laboratory demonstrations on Calibration of flowmeters		
Key Learning Benefits	Participants gain a general understanding of how flowmeters in the oil and other sectors are calibrated and proven, and why field conditions and installation affect accuracy. They become familiar with custody transfer applications of ultrasonic and Coriolis meters, the role of temperature, pressure, and density measurement, and the basics of uncertainty estimation, model approval testing, and fuel dispenser verification, supported by laboratory demonstrations.		
Learning Outcomes	On completion, participants will be able to: • Describe the calibration and proving practices for oil industry flowmeters and dispensers, drawing on case studies and field experience. • Explain the basic approach to uncertainty estimation per ISO/NABL guidelines. • Describe the purpose of model approval testing for flow meters and fuel dispensers. • Recognize the fundamentals of flow measurement for petroleum liquids and the custody transfer role of ultrasonic and Coriolis mass flow meters. • Identify key factors in flow meter selection and the effects of installation on measurement accuracy. • Explain why temperature, pressure, and density measurement matter in flow measurement.		
Programme Achievements	Participants will have a general awareness of the petroleum and flow measurement chain and be able to recognize common sources of measurement error and uncertainty. They will understand why traceable calibration, proper meter selection and installation, and correct ancillary measurements matter for custody transfer, regulatory compliance, and commercial settlement, and be prepared to escalate detailed technical analysis to specialists where required.		
Target Group	Metering and Instrumentation Engineers, Production and Reservoir Engineers, Hydrocarbon Accountants, Product Suppliers, Metering System Vendors, Government Agencies, Researchers. This course has been designed to cover the interests of petroleum production and process industries, Power sector, flow meter manufacturers, dispenser manufactures and users, aviation industry, pipeline transporters (petroleum product), research organizations and academic institutions.		
Course Fees	Rs. 15000/- (Rupees Fifteen Thousand Only) **excl. GST**		
Resource Person	Mr. K Suresh, Chief Research Engineer, FCRI		

Course Registration and Payment Confirmation Form

(Advance Payment Mandatory)

For Course Certificate

Name of Participant: Dr. / Mr. / Ms. ……

Designation: …… Qualification……

Organization: ……

Postal Address: ……

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Tel: …… ……Mob: ……

E – Mail (Mandatory):

1…… 2……

*** Remittance particulars (To be filled and forwarded immediately after payment).**

i. **Program Serial Number of Course: ……**

ii. **Organization Name: ……**

iii. **Organization GSTIN No (Mandatory if GST Registered): ……**

iv. **Remittance Details: Screenshots / Unique Transaction Reference number**

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Bank Account for E - Payment

Training Course Fee to be paid by e – payment (RTGS/NEFT/IMPS)
Favoring
Fluid Control Research Institute, Palakkad - 678623
Current Account No: 10258760349. IFSC Code: SBIN0006640.
State Bank of India (SME Branch/ Code: 06640) Kanjikode West, Palakkad–678 623
GSTIN: 32AAAAF0138K1Z6 / PAN: AAAAF0138K / Swift Code: SBININBB397/ MICR 678002007
Email: training@fcriindia.com/trainingfcri@gmail.com

Please mention Program Series number and Abbreviated Organization name while making payment through NEFT / RTGS / IMPS.

Terms & Conditions

i. **All participants must remit course fees in advance.**
ii. **Receipt/Invoice, Certificate of Participation and PDFs of PPT will be issued after the course.**
iii. **E Mail - Receipt of both Remittance Proof and Registration form will confirm participation for the course and no further communication is normally required.**
iv. **In the event of cancellation / rescheduling of courses, the advance will be either refunded or adjusted**