



**30th
SEPTEMBER
2020**

**e-Course on
FLOW METERS FOR
AUTOMOBILE
ENGINE TEST
APPLICATION AND
THEIR CALIBRATION
METHODS**

**208th in
series**



Course Organised by:

फ्लूइड कंट्रोल रिसर्च इंस्टिट्यूट

FLUID CONTROL RESEARCH INSTITUTE

(ISO 9001: 2008 प्रमाणित, एन ए बी एल मान्यता प्राप्त संगठन)

(ISO 9001: 2008 Certified, NABL accredited organisation)

(यलात्रम मयठ कनर्जिवास रऔ गोयडीराम, (राकरस तराम

(Ministry of Heavy Industries & Public Enterprises, Govt. of India)

कजीकोडे पश्चिम, पालक्काड 623 678 - , केरला

Kanjikode West, Palakkad – 678 623, Kerala.

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ABOUT FCRI

FCRI, a state of the art flow and fluid engineering facility, first of its kind in South East Asia is dedicated to Research & Development in Fluid Flow Measurement & Control Techniques. About 100 sponsored Projects for various reputed organisations have been successfully completed by the Institute. The Institute provides facilities towards technological developments to the flow product industries and serves as a National Certifying Authority and Quality / reliability evaluation facility. The Institute also provides facility for calibration of mechanical, thermal, electrical parameters, noise, vibration etc. Apart from testing and calibration, the Institute conducts National and International training programmes in the field of flow control, measurement & Instrumentation, Calibration and related areas.

About the Programme

Gas flow measurements play a very vital role in petrochemical industries and process plants. Flow measurement and control is an essential requirement for assuring the quantity as per the relevant standards and the safe operation of the piping network and personnel involved. The course is designed to deal with all the relevant aspects of gas flow measurement and control and will also cover the new technological developments in the field.

Contents

Air flow meters are widely used in engine test beds and FCRI is equipped with flow measurement and calibration facilities for certification of these air flow meters used in engine test beds. The e-Training course defines various types of flow meter used in automobile application especially related to engine performance test and also explains the various calibration techniques. This course also discusses flow related general test procedures on air vents assembled in automobile instrument panel

Target Group

Personnel from Mechanical, Instrumentation, Chemical, Petroleum or Electrical Engineering with a background of industrial instrumentation and control in gas flow measurement and related field. Participants may be from Automobile industries & related certifying bodies and agencies, gas industries, flow meter manufacturers, Flow meter user industries, consultant engineers, Govt Regulatory bodies, Research institutes, Academic institutions etc.

Technical Requirements

Microsoft Teams software will be used during the Online training.

Fees

Fees

For Participants working in India :
Rs. 3,000/- + 18% GST Rs.540/- Total Rs. 3,540/- per participant + 1% KFC (as applicable)

For Participants from abroad: US \$ 176 + GST 18 %
US\$ 32 + Charge Us \$ 20 = Total US \$ 228/- per foreign participant + 1% KFC (as applicable)

we accept e-payment only

Bank Details : State Bank of India(SME Branch)
Kanjikode west, Palakkad - 678 623
Account Name : Fluid Control Research Institute
Account No. : 10258760349 & IFSC Code :
SBIN0006640

Please email GST Identification number, invoice address and e-payment details to training@fcriindia.com



**DISCOUNT
PATTERN FOR
PARTICIPANTS
FROM SAME
ORGANISATION**

2-3 person	- 5%
4-5 person	- 10%
6 and above	- 20%

NABL Approved Test Facilities

Gas Meters	OIMLR137-1 Model Approval
Gas Regulators	BS EN 334
Diaphragm Gas meters	BS EN 1359 Model Approval
Liquid Meters / Water Meters	All test as per IS6784, IS779, IS2373, IS04064
Safety Relief Valves	ASME PTC 25
Venting devices/air valves	API 2000
Butterfly Valves & Actuators	POD tests as per AWWA C504 & C540
Control Valves/Actuators	Cv, FL, Seat leakage test, Fugitive emission, cryogenic testing, torque
Liquid Flow Meters	As per relevant standards

Other test

Life Cycle Tests & Cavitation Tests for valves

Recognition of FCRI

Agency	Category
National Accreditation Board for Testing and Calibration Laboratories (NABL)	Calibration/Testing of Flow Products, Mechanical Measurements Thermal Calibration, Electro Technical Calibration
Netherlands Measurement Institute (NMI)	CLATF (20 Bar, 400 m ³ /h) of FCRI complies with the criteria for Calibration Laboratories as per ISO/IEC 17025
Department of Science & Technology	Recognized R&D Institute
Department of Weights & Measures (Ministry of Civil Supplies)	Model Approval tests on flowmeter for custody transfer of oil/gas as per OIML Standard
Chief Controller of Explosives, Nagpur	Testing of Safety Relief Valves
Bureau of Indian Standards	Testing of Water Meters, Anemometers etc.
Institution of Fire Engineers, New Delhi	Hydraulic Qualification tests on fire fighting equipments
Central Pollution Control Board	Certification of Petrol, Kerosene & Diesel Generators for type approval
Nuclear Power Corporation	Seismic Studies for Power plant Equipments
Ministry of External Affairs (ITEC) & Ministry of Finance, Dept. of Economic Affairs (Colombo Plan)	Training programmes for Foreign Nationals on Flow Measurement and Instrumentation for Oil Gas & Water utilities/industries
GCAS Quality Certification Pvt. Ltd	ISO 9001:2008 Certification in Calibration & testing of fluid flow component, calibration of mechanical, electro technical, thermal instruments, flow calibration & measurements at site, project consultancy & implementation, professional training.

Registration

Registration for the training program can be confirmed by sending the details: Name, Designation, Organisation, Postal Address Email/Phone/Fax/Post to the address given below. The course fee is to be remitted in advance through e-payment(RTGS/NEFT) only. The registration must be completed on or before 29th September. 2020.

For further information & registration, please contact:

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