

Workshop-cum-training program on “Measurement of RON, MON and Cetane Number on Cooperative Fuel Research Engines ” (September 14-18, 2026)

Theme: Advancing Fuel Quality Assessment through Accurate Measurement of Octane & Cetane Numbers."

Objectives of Training Program

- Fundamentals of fuel combustion and knock
- Importance of Octane and Cetane ratings
- Principles and working of Cooperative Fuel Research engines
- ASTM methods for RON, MON, and Cetane measurements
- Operation, calibration, and standardization as per ASTM standards
- Fuel sample preparation and handling
- Data interpretation

Who should attend

- Petroleum Refinery Engineers
- Fuel Quality and Testing Professionals
- Laboratory Analysts and Chemists
- R&D Scientists
- Automotive Fuel Specialists
- Regulatory and Inspection Personnel

Program Contents

- Basics of Cooperative Fuel Research methods
- Ignition phenomenon in gasoline and diesel combustion
- Gasoline and diesel fuel quality, PRFs, SRFs
- Impact of fuel quality on engine emissions
- Standardization for measurement of RON/MON/CN
- Hands on measurement of RON/MON/CN
- Operation and maintenance as per ASTM standards

Expected Learning Outcomes

- Understanding of gasoline and diesel fuel quality parameters.
- Practical knowledge and experience in measuring RON, MON and Cetane Number according to ASTM standards.
- Skills in data interpretation, calibration and standardisation.

Faculty for the Program

Our programs are delivered by highly experienced scientists and subject matter experts from CSIR-IIP, selected through a meticulous evaluation process to ensure unparalleled course quality and relevance. To further enrich the learning experience, we also invite distinguished guest faculty from academia, refineries, and industry consultancy firms. Together, they bridge the gap between advanced theoretical knowledge and practical, real-world application, delivering an impactful training experience for every participant.

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About CSIR-IIP

CSIR-Indian Institute of Petroleum (CSIR-IIP) is located in the beautiful Doon valley at the foothills of Himalayas. One of the 37 constituent laboratories of the Council of Scientific & Industrial Research (CSIR), it is a premier organization dedicated to Research & Technology development in Energy and Chemical sectors. The Institute has continued its efforts to grow into an internationally renowned R&D organization, providing quality research and innovative technologies for national and international markets and customized technical support to industry. CSIR-IIP was established on 14th April 1960 with initial technical collaboration with Institut Francais du Petrole (IFP), France. CSIR-IIP is equipped with State-of-the-art equipment, bench/pilot scale facilities and other infra-structural support for research in petroleum refining, petrochemicals, alternate fuels biofuels and utilization of petroleum products. CSIR-IIP has helped refineries in selection and implementation of new innovative technologies and optimization of existing refinery operations. It has more than 2000 publications in International journals. IIP has a strong IP portfolio with 285 granted Indian patents and 160 granted foreign patents. CSIR-IIP has been the key training solution provider not only to Indian and international refineries but also to chemical, automotive and transport sector.

Program fee

The Training Program is a moderately priced residential offering, thoughtfully designed to deliver maximum value to participants from industry, public sector organizations, and academia. The program fee shall be Rs 75000/- per person plus 18% GST (as applicable). The training fee includes comfortable residential accommodation at Dr B.R. Ambedkar International Training Centre / IIP Guest House within the campus, expert lectures, interactive sessions, breakfast, lunch, dinner, and tea/coffee during sessions, training kit and course material(soft copy), CSIR-IIP certificate of participation, local hospitality and support.

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Bank details : E-transfer of Program Fee

Name of Bank : State Bank of India

Name of the : Director, Indian Institute of

Account holder : Petroleum, Dehradun.

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Branch : IIP Township, Mohkampur
Dehradun, India

SWIFT Code : SBININBB380

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