

Training program on “Physicochemical Characterization of Petroleum and Petroleum Products ” (September 7-18)

Theme: Petroleum Characterization: Quality & Reliability

Objectives of Training Program

To provide participants with comprehensive knowledge and practical understanding of the physicochemical properties of crude oil, petroleum products, lubricants, and alternative fuels. The program focuses on test methods, quality evaluation, specification requirements, laboratory practices, and interpretation of analytical data for refining, marketing, quality control, and research applications. This program bridges theory and hands-on practice, making it ideal for engineers and professionals in refining, QC, marketing, and R&D who need to interpret analytical data for operational and regulatory decisions.

Program Content

- Introduction to Petroleum and Petroleum Products
- Crude Oil Evaluation and Characterization
- Petroleum Product Testing
- Fuel Performance Properties
- Lubricants and Specialty Products
- Advanced Analytical Techniques
- Alternative Fuels Characterization
- Petroleum Product Specifications and Standards
- Laboratory Quality Management
- Data Interpretation/Significance, Case Studies and Laboratory demos / Hands-on sessions

Who should attend

- Refinery Engineers/ Technologists
- Quality Control and Laboratory Personnel
- Petroleum Product Marketing Professionals
- Fuel and Lubricant Manufacturers
- Regulatory and Compliance Professionals

Learning Outcomes

Participants will be able to:

- Understand the advanced physicochemical properties of crude oil and petroleum products.
- Perform and interpret standard petroleum test methods.
- Evaluate fuel and lubricant quality against specifications.
- Utilize advanced analytical techniques for product characterization.
- Troubleshoot product quality issues and contamination problems.
- Implement laboratory quality assurance and accreditation requirements.

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 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 1,20,000/- per person plus 18% GST (as applicable) including 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.

Contact Information

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Premchand N

In-Charge Training

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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.
Bank Account No : 30266912400
Branch : IIP Township, Mohkampur
Dehradun, India
SWIFT Code : SBININBB380
11 Digit IFS Code : SBIN0002359
MICR No. : 248002007
GSTIN : 05AAATC2716R2ZK

Bank Transfer / NEFT / RTGS

GST-compliant invoice will be issued post-payment