



## CSIR-INDIAN INSTITUTE OF PETROLEUM

(Council of Scientific & Industrial Research)

P.O. Mohkampur IIP, Haridwar Road,  
Dehradun-248 005,Uttarakhand (India)

Website: [www.iip.res.in](http://www.iip.res.in)



### Hands-on training on 'Industrial Catalyst Preparation and Micro Reactor Studies'

#### Introduction

With experienced and qualified staff and comprehensive state-of-the-art R&D facilities the institute maintains its leading position in conducting training programs for the personnel from refining, petrochemical, automotive, power and related user industry. More than 10000 personnel from India and abroad have been trained on different requirements.

As per the initiatives taken by the institute for 'CSIR-IIP Integrated Skill Development Training Programs' applications are invited from eligible Indian nationals for training program on 'Industrial Catalyst Preparation and Micro Reactor Studies'.

Our Light Stock Processing Division is equipped with range of catalyst preparation instruments beside manpower having wide-ranging working experience and extensive knowledge base. The participants will have the opportunity to acquire a broad working knowledge of various preparations, testing and evaluation techniques.

#### Objectives & Scope

Training is aimed at providing knowledge and hands on experience on catalyst preparations & evaluation to those new to the hydrocarbon & petrochemical industry / R&D institute/academics.

#### Contents

##### Theory

- Introduction to Catalysts and Catalysis
- General properties of the materials required for catalysis; Pre and post modification of catalytic properties
- Overview of refining process working on catalysts
- Important refining reaction such as Reforming and BTX production from low value feed stocks

##### Practical

- Basic work for catalyst preparation
- Selection of raw materials and their preparation
- Preparation of Alumina/zeolite etc based materials
- Extrudates formation/ shaping of catalyst support
- Thermal treatments involved in catalyst finishing such as Drying and calcination
- Pre and post modification of catalytic materials
- Metal incorporation/ support functionalization in catalyst preparation
- Reaction studies of all the prepared catalyst

#### After successful completion

With exposure to catalyst preparation and evaluation facilities backed by theoretical clarity, a person will learn to develop a catalyst and fine tune its properties for a desired reaction.

#### Pre-requisites

No pre requisites beside educational qualification being M.Sc. (Chemistry)/ B. Tech (Petroleum/Chemical Engineering). Those appearing in the final exam may also apply. 20 - 40 years of age. (Age/qualification relaxation as per Govt. of India Rules/discretion of Director, CSIR-IIP).

#### Who Should join

Any Indian citizen desires to excel in the area of Catalytic Process in Refinery R&D/Academics with broad knowledge of catalysis and catalyst evaluation.

Salient features of the program													
<ul style="list-style-type: none"> <li>• Training by Experience faculty/Senior scientists/ of CSIR-IIP</li> <li>• Theory: Practical :: 30 :70</li> <li>• Interactive sessions for in-depth knowledge sharing.</li> <li>• Evaluation of trainees will consist of both Theory&amp; Practical component.</li> <li>• Certificate will be awarded on successful completion of the training</li> </ul>													
Contact for Registration	Course Fees / Terms and Conditions												
<p>Please send hard copy of application and documents at following address:</p> <p><b>Sh C D Sharma</b>  <b>Co-ordinator, Skill Development Training Program</b>  <b>CSIR-Indian Institute of Petroleum</b>  <b>Mohkampur, Haridwar Road</b>  <b>Dehradun - 248005</b></p> <p>You may also correspond, send soft copy of application at following e-mail:</p> <p><b>e-mail: <a href="mailto:cdsharma@iip.res.in">cdsharma@iip.res.in</a></b></p> <p><b>Contact phone nos.</b>  <b>Sh C D Sharma, Tel No 0135-2525950, M- 9412028789</b>  <b>Dr Anil K Jain, Tel 0135- 2525743(O), M-9897119578</b>  <b>Dr AK Gupta, Tel 0135-2525952(O), M-9119783737</b></p>	<p>A non-refundable course fee of Rs.4000/- (Rupees Four Thousand only) for Student/unemployed candidate and Rs.10,000/- (Rupees Ten Thousand only) for Company sponsored /employed candidate to be paid at the time of admission.  Course Fee shall be paid through E-payment option.</p> <p><b>Bank Account Details facilitating e-transfer of Funds/Payment</b></p> <p><b>Name of Bank : State Bank of India</b>  <b>Name of the account holder : Director, Indian Institute of Petroleum, Dehradun.</b></p> <p><b>Bank Account No : 30266912400</b>  <b>Branch : IIP Township, Mohkampur Dehradun., India</b></p> <p><b>Contact Person : Dr. Anil K Jain</b>  <b>e-mail : <a href="mailto:aniljain@iip.res.in">aniljain@iip.res.in</a></b></p> <p><b>SWIFT Code : SBININBB380</b>  <b>11 Digit IFS Code : SBIN0002359</b>  <b>MICR No. : 248002007</b>  <b>GSTIN : 05AAATC2716R2ZK</b></p>												
How to Apply & Selection													
<ul style="list-style-type: none"> <li>• Candidate has to apply as per the application format in the given link below.</li> <li>• Selection will be made based on criteria after scrutiny of applications.</li> <li>• Documents in original to be shown on joining the Training and one self-attested set of documents Along with Application Form to be submitted on the date of interview/selection/ Training</li> </ul> <p><a href="#">Form download (MS Word)</a></p> <p><b>Training venue : CSIR-Indian Institute Of Petroleum</b>  P.O.: IIP Mohkampur, Haridwar Road, Dehradun-248 005, Uttarakhand (India).  No TA/DA and accommodation for interview will be provided to the candidates.</p>													
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