



सीएलआईआर  
CSIR  
भारत का नवाचार इंजन  
The Innovation Engine of India



भापेस  
Creating Future Fuels

## BASIC SKILL DEVELOPMENT TRAINING ON

“Glass blowing”

Oct 6 2025 to Dec 12, 2025

# CSIR-INDIAN INSTITUTE OF PETROLEUM

## INTRODUCTION

CSIR-IIP has state-of-the-art R&D facilities, experienced and qualified staff and the institute maintains its leading position in conducting training programs for the personnel from refining, petrochemical, automotive, power and related user industry. More than 10,000 personnel from India and abroad have been trained.

CSIR-IIP conducts skill development programs under **‘CSIR Integrated Skill Initiatives (ISI)** and applications are invited from eligible participants for basic skill development training program on **“Glass blowing”**.

Our Glass blowing Workshop is equipped with range of glass blowing tools, auxiliary equipment, raw-material and consumables etc. Training booths in Glass Blowing workshop have correct ventilation and correct screening to protect trainees.

- Glass blowing shop is equipped with range of glass blowing tools (Carbon plate, Carbon needles, Tungsten needles, Blowing tube, Rubber cork, Flask holder. )
- Auxiliary equipments (Lathe machines, Burner and hand torch burner, Bunsen burner, Furnace, Surfacing machine, Glass tube cutting machine.)
- Safety tools (Eye safety Goggle, high temperature hand gloves, Lab coats, safety shoes, and safety gas pipe lines.)
- Glass raw-material and consumables etc. Training booths in Glass Blowing workshop have correct ventilation and correct screening to protect trainees

## GET IN TOUCH



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## CSIR INTEGRATED SKILL INITIATIVES

### BASIC SKILL DEVELOPMENT TRAINING ON

### “GLASS BLOWING”

#### OBJECTIVES & SCOPE

Training is aimed at providing **basic introduction to hands on practice** to those new to the industry or wishing to develop their career further in the Glass Blowing / Molding Area.

#### AFTER SUCCESSFUL COMPLETION

A person will be able to execute from routine blowing operations, fabricating hardware for R&D experiments etc. Depending upon his/her caliber and dedication in learning the skill.

#### CONTENTS

- Different Types of Glasses
- Identification of different types of glasses
- Different types of flames
- Working point, Annealing point, Flame annealing of glass, Strain point.
- Glass thermal properties
- Coefficient of thermal expansion of glasses.
- Bursting pressure of Glass.
- Introduction to Glass blowing equipments, pressure regulator, glass blowing burners
- Glass bending, cutting, grinding, surfacing
- Fire polishing and flaring ends
- Glassware joints: T,Y, +etc.
- Glass fusion
- Round bottom/Flat bottom
- Bulb Blowing
- Capillary tubing, test tubes with different open edges
- Jacketed Condenser, Columns, Vessels
- Ring & Side tube Joints
- Introduction to workshop safety

#### IMPORTANT DATES

- |   |   |                                      |
|---|---|--------------------------------------|
| Last date for submission of Application | : | 26th September 2025                  |
| Course Duration                         | : | Oct 6 2025 to Dec 12 2025 (10 Weeks) |

***Seats are limited to a maximum of 5 participants. Register early!***

## PRE-REQUISITES / QUALIFICATION

No pre requisites beside educational qualification being high school/Class 10 passed.

20 - 45 years of age.

(Age/qualification relaxation as per Govt. of India Rules/discretion of Director, CSIR-IIP).

## WHO SHOULD JOIN

Any Indian citizen having strong desire to excel in niche area of Glass Blowing either by raising his own workshop for tapping R&D experimental set-up requirements, or simply making career with companies already in the field.

## SALIENT FEATURES OF THE PROGRAM

- Theory : Practical :: 30 : 70
- Interactive sessions at Glass Blowing Workshop floor for knowledge sharing
- Evaluation of trainees will consist of both Theory & Practical component.
- Certificates will be awarded on successful completion of the training.
- Motivation for self employment, Entrepreneurship development & personality development.

## COURSE FEES / TERMS AND CONDITIONS

- Candidates have to apply as per the application format in the given link below along with one set of self-attested documents (Hard copy of application).
- All documents in original to be shown at the time of enrolment.

[FORM download \(pdf\)](#)

## CSIR INTEGRATED SKILL INITIATIVE

**A non-refundable course fee of ₹ 7500 (Rupees Seven Thousand Five Hundred only) per person is applicable for students/unemployed candidates, and ₹30,000 (Rupees Thirty thousand only) for sponsored candidates.**

**The SC/ST/EWS candidate will get 25% discount in the above fee structure.**

**Course Fee shall be paid through electronic mode after confirmation only.**

**Boarding & Lodging charges extra as per the prevailing rates of IIP Hostel**

**and subject to availability.**

<b>Name of Bank</b>	<b>: State Bank of India</b>
<b>Name of the account holder</b>	<b>: Director, Indian Institute of Petroleum, Dehradun.</b>
<b>Bank</b>	<b>: State Bank of India</b>
<b>Account No</b>	<b>: 30266912400</b>
<b>Branch</b>	<b>: IIP Township, Mohkampur Dehradun, India</b>
<b>SWIFT</b>	<b>: SBININBB380</b>
<b>Code 11 Digit IFS Code</b>	<b>: SBIN0002359</b>

**TRAINING VENUE :** CSIR-Indian Institute Of Petroleum P.O.: IIP Mohkampur, Haridwar Road, Dehradun-248 005, Uttarakhand (India).