



# CSIR Integrated Skill Initiative Phase III 2025-2030

## Skill Development Programme

### CSIR-Central Glass & Ceramic Research Institute

## ANNOUNCEMENT

**Skill Development programme on “Physical testing of refractory raw materials and products as per Indian Standards” at CSIR-CGCRI, Kolkata**  
**( 13<sup>th</sup>-15<sup>th</sup> October 2026 )**

### About the Program

CSIR-CGCRI is organising three-day skill development programme on “Physical testing of refractory materials as per Indian standard” at CSIR-CGCRI, Kolkata, as a part of CSIR Integrated Skill Initiative under “Skill India” mission of the Government of India. The aim of the programme is to impart hands-on training to people working in the industry and students on refractory testing. The curriculum of the program is designed to augment the understanding of participants on scientific principles/ technical mechanisms working behind every step of the testing process.

CSIR-CGCRI has vast and strong expertise in the field of refractory testing and characterization and well equipped with various state-of-the-art instruments for characterisation of refractory raw materials and products. This institute is the only national laboratory working in the field of refractory research and development and has vast experience and expertise in refractory product development.

### Objective

The main objective of this skill development program is to provide basic training on refractory product characterization through lectures and demonstrations.

### Course Details

| Sl. No. | Title                                                           | Course details                                                                                                                                                                                                                                 | Duration                                                           | Eligibility                                                                    |
|---------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1.      | Physical testing of refractory materials as per Indian standard | <b>a. Physical characterization:</b><br>Specific gravity, apparent porosity, bulk density<br><br><b>b. Mechanical /thermal / thermo-mechanical characterization:</b><br>CCS, MOR, PCE, RUL, HMOR, PLCAR<br><br><b>c. Result interpretation</b> | 3 days<br><br>(13 <sup>th</sup> to 15 <sup>th</sup> October, 2026) | Students (B.Tech./ B.Sc. /Diploma)<br><br>Industry people (min 10th std. pass) |



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#### Program Venue

#### CSIR-Central Glass & Ceramic Research Institute

196, Raja S. C. Mullick Road  
Kolkata-700032, West Bengal

#### Expected benefits to the participants

During the training program, participants will learn about basic concepts of refractory properties and their testing and evaluation of products with reference to relevant BIS quality standards. Various test apparatus and their efficient operation and hands-on training for the operation of the same. Participants will be exposed to sophisticated characterization techniques used in ceramics and made to understand their relevance. By undergoing this training program candidates will be able to troubleshoot the day-to-day problems in the production process as well as improve efficiency. At the end of the training program, a certificate of participation will be issued.

Kindly note that the registration for the program will be on a first come first serve basis. Therefore, it is requested to register yourself or nominate your representative by filling up the application form before **09<sup>th</sup> October 2026**.

\*Participants will have to make their own arrangements for stay and travel.

#### For further details, you may please contact

|                                                                                                           |                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dr. Somnath Sinhamahapatra</b><br>Sr. Principal Scientist<br>CSIR-CGCRI, Kolkata<br>PI, HCP2502(WP-02) | <b>Mr. Satyajit Pasari</b><br>Sr. Technical Officer (1)<br>CSIR CGCRI, Kolkata<br>Email; <a href="mailto:satyajit.cgcri@csir.res.in">satyajit.cgcri@csir.res.in</a><br>Mob-9748197579 |
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# CSIR Integrated Skill Initiative Phase III 2025-2030 Skill Development Programme

CSIR-Central Glass & Ceramic Research Institute

CSIR Integrated Skill Initiative- Phase III  
(APPLICATION FORM)

**SKILL DEVELOPMENT PROGRAMME ON "Physical testing of refractory materials as per  
Indian standard"  
( 13<sup>th</sup>-15<sup>th</sup> October 2026 )**

| Sr. No. | Particulars               | Candidates' Details        |
|---------|---------------------------|----------------------------|
| I       | Name of the Participant   |                            |
| II      | Father's/ Husband's Name  |                            |
| III     | Aadhar ID No.             |                            |
| IV      | Date of Birth             |                            |
| V       | Gender                    |                            |
| VI      | Category                  | General // SC // ST // OBC |
| VII     | Physically Disabled       | Yes / No                   |
| VIII    | Current Status            | Working / Studying         |
| IX      | Communication Address     |                            |
| X       | Educational Qualification |                            |
| XIII    | Mobile Number             |                            |
| XV      | E mail                    |                            |
| XVI     | Trainee Domicile          | Urban / Rural              |

**Declaration:** I hereby declare that the above information in respect of me is true to the best of my knowledge.

Signature of the candidate

Signature of the Coordinator/PI

Date

Place