



CSIR Integrated Skill Initiative 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
(4th-7th August 2025)**

About the Program

CSIR-CGCRI is organising a four-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	a. Physical characterization: Specific gravity, apparent porosity, bulk density b. Mechanical /thermal / thermo-mechanical characterization: CCS, MOR, PCE, RUL, HMOR, PLCAR c. Result interpretation	4 days (August, 4-7, 2025) Monday to Friday	Industry people (min 10th std. pass) Students (B.Tech./ B.Sc. /Diploma)



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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 **1st August 2025**.

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

For further details, you may please contact

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**Integrated Skill Initiative- Phase III 2025-2030
(APPLICATION FORM)**

**SKILL DEVELOPMENT PROGRAMME ON “Physical testing of
refractory materials as per Indian standard”
4th-7th August 2025**

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.

Date

Signature of the candidate

Place

Signature of Coordinator / PI