



CSIR Integrated Skill Initiative Skill Development Programme



CSIR-Central Glass & Ceramic Research Institute

ANNOUNCEMENT

**Skill Development programme on “Physical Testing of Refractory Materials as per IS Standard” at CSIR-CGCRI, Kolkata
(November, 20-24, 2023)**

About the Program

CSIR-CGCRI is organizing a “five-day” skill development programme on “Physical testing of refractory materials as per IS standard” at CSIR-CGCRI, Kolkata, as a part of the **CSIR Integrated Skill Initiative** under “**Skill India**” mission of Government of India. The programme aims to impart hands-on training to people working in the industry and the students on refractory testing. The program’s curriculum 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 is well-equipped with various state-of-the-art instruments for the 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.

Under the CSIR Integrated Skill Initiative programme, CSIR-CGCRI is pleased to announce a four days skill development programme entitled “**PHYSICAL TESTING OF REFRACTORY MATERIALS AS PER IS STANDARD**” at **CSIR-CGCRI, Kolkata**.

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 IS standard	<p>Physical characterization: <i>Sp. gravity, apparent porosity, bulk density</i></p> <p>Mechanical /thermal / thermo-mechanical characterization: <i>CCS, MOR, PCE, RUL, HMOR, PLCAR, Result Interpretation</i></p>	5 days (November, 20-24, 2023) Monday to Friday	Industry people / Degree/ Diploma (Engg.) / H.S. (10+2)



CSIR Integrated Skill Initiative Skill Development Programme



CSIR-Central Glass & Ceramic Research Institute

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 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 at the earliest.

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

For further details, you may please contact

Dr. Somnath Sinhamahapatra
Principal Scientist
Refractory & Traditional Ceramics
CSIR-CGCRI, Kolkata
Activity Leader
Email: somnaths@cgcri.res.in
Mob. 9163194495

Dr. Himansu Sekhar Tripathi
Chief Scientist and Head
Refractory & Traditional Ceramics
CSIR-CGCRI, Kolkata
Email: hstripathi@cgcri.res.in
Mob. 9433457546