



CEFC PRATHAM FOUNDATION

The Center is located at Ranchi in Jharkhand, India,
in the premises of HEC.

Are You Ready To...

ENHANCE Your career

that you have always envisioned?

For further information:
Heavy Engineering Corporation Limited
Plant Plaza Road, P.O: Dhurwa
Ranchi - 834 004, Jharkhand (India)

Phone number: +91 – 651 – 2401210
Fax. No. +91 – 651 – 2401323
E-mail : cefcpratham@gmail.com
Website: www.cefcpratham.in

Take it to the NEXT LEVEL & CHANGE

The way you perceived opportunities?



Then you need to JOIN



CEFC PRATHAM FOUNDATION

The Center is located at Ranchi in Jharkhand, India,
in the premises of HEC.





CEFC PRATHAM
FOUNDATION



What is CEFC

The Common Engineering Facility Center (CEFC) is a national facility for imparting training in high-end technologies, which was initiated by Heavy Engineering Corporation Limited (HEC), at Ranchi, Jharkhand, India. It is founded under the Scheme of "Enhancement of Competitiveness in the Indian Capital Goods Sector" of the Department of Heavy Industry, Ministry of Heavy Industries & Public Enterprises, Government of India, and implemented through the CEFC Pratham Foundation, a Company registered under Section-7 of the Indian Companies Act, 2013.

HEC has tied up with CNIITMASH, which is the State Research Center of Russian Federation, to conduct the training programmes and provide technical support. The CEFC is a part of Make in India and Skilling India initiatives of the Government of India and will play a vital role in creating highest level of facilities for training and development of skilled manpower to address the skill gap in the Capital Goods sector for manufacturing of critical components and equipment for heavy engineering industries for Defence, Nuclear, Power, Steel, Aerospace and other key applications in India.

No other institute in India imparts such tailor-made application oriented courses that encompass an ideal mix of both theory and practical training. These specially designed courses have been developed by the scientists and experts of CNIITMASH, who will also be the lead trainers, supported by highly experienced domain experts from the Indian industry as well as faculty from premier institutes of India like the Indian Institute of Technology (IIT), Kharagpur and National Institute of Foundry & Forge Technology (NIFFT), Ranchi

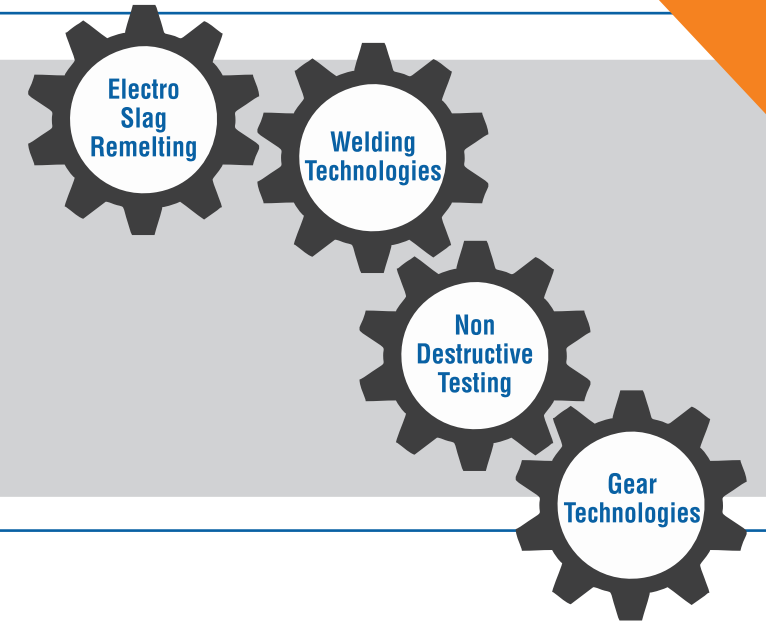
Advanced short-term courses with emphasis on practical training are being offered in the following areas:

- | | |
|---------------------------------|------------------------------------|
| a) Electro Slag Remelting (ESR) | b) Welding Technology |
| c) Non Destructive Testing | d) Gear Manufacturing |
| e) Forging Technology | f) Casting Technology |
| g) Heat Treatment | h) Steel Melting and Ingot Casting |



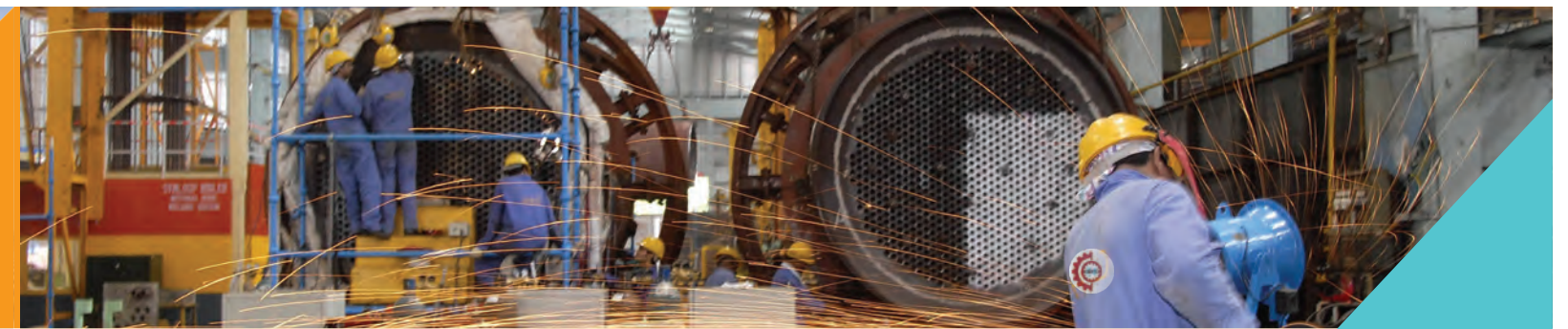
Vision of CEFC

Common Engineering Facility Center is a world class national training cum research center par excellence set-up for providing advanced training of highest quality by domain experts for skill development focused at manufacturing of critical items based on the needs of the heavy industries in India and abroad.



Mission of CEFC

- ✓ Create a visible aura of expertise in training and research that encompasses high technology areas in manufacturing industries related to nuclear power, thermal power, space research, defence, steel & mining sectors and other heavy industries.
- ✓ Achieve sustained year on year growth that is based on the concept of being driven by the satisfaction of all its stakeholders.
- ✓ Attract faculty with the right blend of knowledge, experience and attitude, who take pride in recognizing CEFC as a premier national training center.
- ✓ Create an environment and facility that makes learning interesting.
- ✓ Generate training facilities in new cutting edge technology and ensure skill development by offering state of the art training modules.
- ✓ To promote collaborative efforts between industry and academia to make the training highly useful to both experienced plant engineers from industries as well as fresh engineers from colleges.



CEFC Pratham Foundation – Building the Nation through Training and Skill Development :

- CEFC Pratham Foundation is a Center of Excellence in training and research for best available manufacturing technology in nuclear & strategic, power, iron & steel, mining and chemical industries in Indian Capital Goods sector.
- Skill gaps in the aforesaid sectors will be bridged, thus making available a skilled and efficient workforce ready to take up the mantle of the Indian manufacturing industries.
- Assist the industries in development and production of critical components and equipment for the Indian Capital Goods Sector.
- Help in development of efficient technological processes for manufacturing of critical components and equipment and import substitutes
- Provide in-house training and Research & Development (R&D) support to the Capital Goods industries of the Country.
- Improve employability potential and support career growth of fresh and experienced engineers.
- Bring about effective Industry – Academia interaction for the mutual benefit of both the establishments.



EXPLORE THE OPTIONS

Sl. No	Course Title	Duration	No. of Trainees
1	Process technologies of steel melting, refining and treatment for heavy industries, thermal, hydraulic and nuclear power plant equipment / components.	3.5 Months	25
2	Technologies and equipment for making ingot from cast steel for engineering products including nuclear.	3.5 Months	25
3	Forging process technology for making components / parts for heavy and power engineering, including nuclear engineering.	3.5 Months	25
4	Technologies of heat treatment and selection of appropriate heat treatment cycle for steel for various applications in power engineering.	3.5 Months	25
5	Process technologies for production of cast products for heavy and power engineering, including nuclear, engineering.	3.5 Months	25
6	Equipment and technology of electro-slag re-melting (ESR) for the production of heavy, power and other industrial machinery, including nuclear power.	3.5 Months	25
7	Welding technology for use in critical equipment.	3.5 Months	25
8	Non-destructive Testing of castings, forgings, welding etc.	4 Months	25
9	State of the art production methodology of gear manufacturing for power, heavy, metallurgical, chemical, and others branches of engineering.	3.5 Months	25





CEFC PRATHAM FOUNDATION



Heavy Engineering Corporation Limited (HEC)

HEC was established in the year 1958 at Ranchi, as one of the largest Integrated Engineering Complexes of India. It manufactures and supplies capital equipment & machineries and renders project execution required for core sector industries. It has complete manufacturing set up starting from casting & forging, fabrication, machining, assembly and testing, all at one location and supported by a strong design, engineering and technology team.



CNIITMASH

JSC "RPA "CNIITMASH" is the State Research Center of Russian Federation. It was founded in the year 1929 with the objective of providing comprehensive solutions and development of new materials and advanced process technologies for manufacturing of next-generation equipment for the power industry, metallurgy, chemical and petrochemical production, transportation, gas and mining industry.

The experts of **CNIITMASH** dominate the following spheres :

- Design of new structural materials
- Steel making technologies
- Casting technologies
- Pressure shaping
- Welding
- Cold metal working
- Non-destructive testing
- Stress calculations, life prediction etc.
- Process technology computer simulation
- Design and manufacturing of custom equipment
- Project engineering



MANUFACTURING UNITS OF HEC

FOUNDRY
FORGE
PLANT

HEAVY
MACHINE
BUILDING
PLANT

HEAVY
MACHINE TOOL
PLANT

PROJECTS
DIVISION

Why this Course?

The courses are specifically designed to provide in-depth application oriented knowledge on the latest technologies involved in manufacturing of critical equipment and components for strategic and other important sectors that would be imparted by domain experts having hands on experience in these areas. This would translate into enhancement of capabilities of the participants for development of new processes and products.

The programme offers the opportunity to learn from the experiences of the other participants from various industries and fields. The wide international exposure will broaden the outlook of the participants.

The courses offer a blend of theory and practical training with regular evaluation of the participants. Upon successful completion of the Training course, the participants shall be awarded Certificates from CNIITMASH and HEC.

