

COURSE SCHEDULE

Time	Activity
08:30 - 09:00	Introduction & Recap of Pre-Requisites
Part – 1: Compressor System Design and Analysis, Installation, and Commissioning.	
09:00 - 10:30	Component – 1: Theory Session
10:30 - 10:45	Tea Break
10:45 - 11:45	Component – 2: Tutorial Session
11:45 - 12:45	Component – 3: VR Session
12:45 - 13:45	Lunch Break
Part – 2: Compressor Operations and Controls, Maintenance and Troubleshooting.	
13:45 - 15:15	Component – 1: Theory Session
15:15 - 15:30	Tea Break
15:30 - 16:30	Component – 2: Tutorial Session
16:30 - 17:00	Q&A with the Faculty (Prof. Pramod Kumar)
17:00 - 17:30	Assessment & Closing Remarks
17:30 - 19:00	Component – 3: VR Session <i>(Optional Extended Session)</i>

Prepare to become a compressor expert through a balanced combination of theory, practice, and immersive VR experiences in our specialized module. This is just the beginning of your journey to mastering rotating machinery.



COMPRESSORS Masterclass A Complete Guide

04th November 2023

Sponsored by



सत्यमेव जयते

भारी उद्योग मंत्रालय
MINISTRY OF
HEAVY INDUSTRIES

Developed and conducted by



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Society for Innovation & Development



Faculty Mentor: Prof. Pramod Kumar,
Dept. of Mechanical Engineering, IISc

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Registration:

[Register-Compressors Master Class](#)



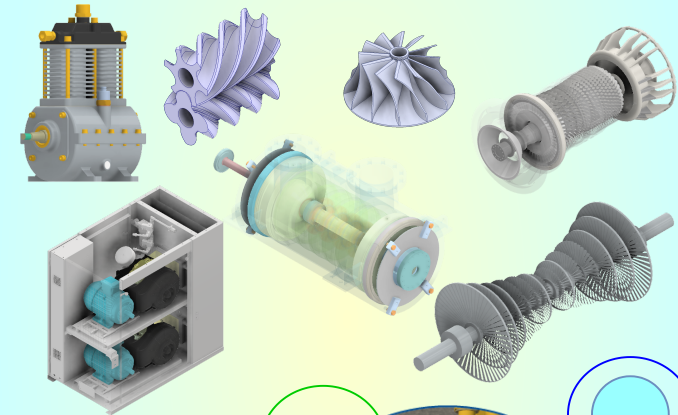
Course Fee:

Working professionals - **₹5,900 /-** (Inclusive of 18% GST)
(Early bird discount of ₹3,540 /- till 20th October 2023)

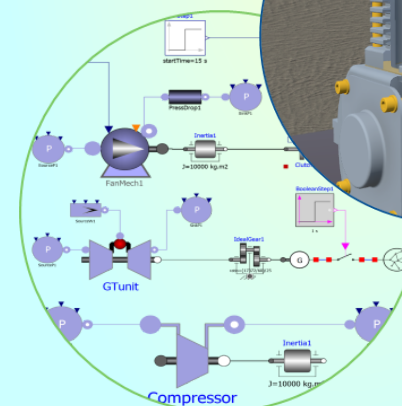
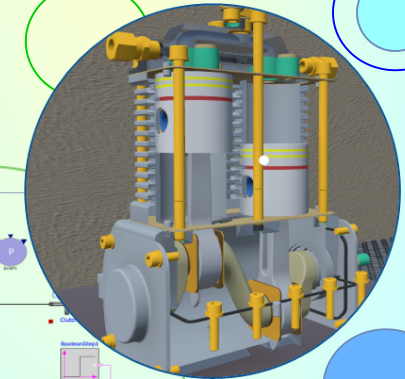
Students - **₹2,360 /-** (Inclusive of 18% GST)

Limited seats available; up-to 25 people.

REGISTER NOW!!!



Virtual
Reality



Hands-on
Tutorial

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COURSE OVERVIEW

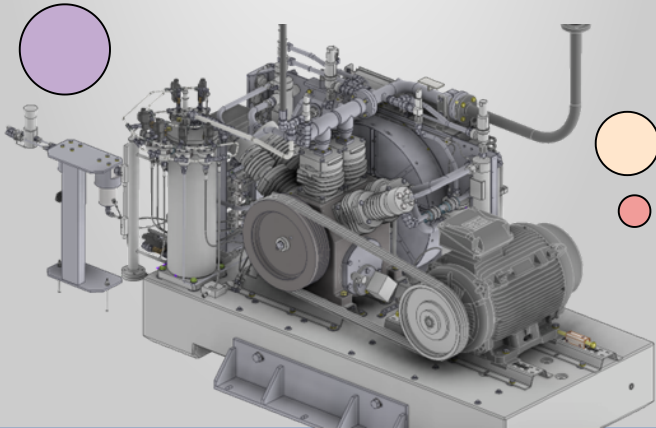
Background:

Compressors find broad application in diverse industries, serving purposes like refrigeration, air conditioning, gas processing, and power generation. They encompass various types, including positive displacement (reciprocating and rotary screw) and dynamic (centrifugal and axial) variants.

Compressor design requires engineers to carefully balance factors like flow rates, pressures, and temperature ranges for efficiency and reliability. In operational terms, precise control systems are necessary to manage pressure levels and demand fluctuations in industries with varying usage. Energy efficiency is a constant concern due to high power consumption, making optimization crucial for cost-effective operation.

Objective:

The course aims to equip participants with a comprehensive grasp of compressor design, operations, energy optimization, and maintenance practices, enabling them to effectively meet the challenges of compressor applications across industries.



KEY TAKEAWAYS

- Understand compressor principles.
- Explore compressor types and applications.
- Learn design considerations.
- Improve compressor efficiency.
- Master control systems.
- Develop maintenance skills.
- Acquire problem-solving abilities.
- Analyze real-world case studies.
- Use VR for compressor simulations.
- Visualize complex compressor processes.

MODULE COMPONENTS

1. Theory Session:

- Understand fundamental compressor principles.
- Expert guidance through videos and instructors.
- Build a strong theoretical foundation.

2. Tutorial Session:

- Practical compressor insights.
- Hands-on training with OpenModelica simulation software.
- Enhance problem-solving skills for real-world applications.

3. Virtual Reality (VR) Session:

- Immersive experience in a cutting-edge VR lab.
- Assemble and disassemble compressor components.
- Gain practical insights and confidence in compressor handling.

WHO SHOULD ATTEND?

- Final year or fresh engineering graduates and postgraduates seeking industry-relevant skills in rotating machinery.
- Participants with up to 5 years of industry experience who are interested in a career shift to rotating machinery.

SALIENT FEATURES

- Practical and advanced concept on compressor technologies.
- Realistic and advanced hands-on tutorial and virtual reality sessions.
- Certification by Centre for Continuing Education (CCE) of Indian Institute of Science (IISc).

Secure your spot and maximize your learning experience in the live compressor session by registering at least a week ahead to receive the complementary refresher prerequisite module.

Note: Please bring your own laptop and android mobile phone to experience the hands-on tutorial and VR sessions.

Instructions to check compatibility of your phone for VR experience will be emailed after registration.

