



DIPLOMA IN THERMAL INSULATION



ACHIEVE THERMAL INSULATION EXPERTISE IN THE OIL & GAS, PETROLEUM, OR PETROCHEMICAL INDUSTRIES. ACQUIRE THE FUNDAMENTAL SKILLS NECESSARY TO START OR STRENGTHEN YOUR OIL & GAS CAREER.



Who Should Join

- Anyone willing to gain thermal insulation skills and expertise.
- Engineers, Managers, Supervisors, Freshers, QA/QC, Insulators, etc.



Course & Exam Fee

- USD 795/-



Participation Eligibility

- None



Learning/Study Mode

- Online (Study from anywhere & anytime)
- 1 Year Course Access
- Online Exam

Course Overview

The Diploma in Thermal Insulation course, also referred to as IOGS/DTI, is one of the most popular courses offered by the Institute for the Oil & Gas Sector (IOGS), giving individuals the opportunity to develop the essential thermal insulation skills and knowledge required to begin or strengthen their careers in the oil & gas industry's thermal insulation profession.

The course is offered online via the learning management system (LMS), allowing students to study conveniently from anywhere using an internet-enabled device (e.g., smartphone, laptop, desktop, etc.).

The course covers hot, cold, and acoustic insulation systems used on piping vessels, exchangers, etc., in the oil and gas or petroleum industry.



NOTED BENEFITS

CONVENIENT

You can study ONLINE with IOGS, which allows you to learn from home, work, or while traveling.

AFFORDABLE

Our Course price is 50% to 60% cheaper than other alternative providers.

FLEXIBLE

Online learning enables you achieve the essential oil & gas work skills from any part of the world, even while working or at home.

HOW TO ENROLL

- [Click Here](#) to Enroll Online
- Download [PDF Form Here](#)

MORE DETAILS

- Play a [Video Tutorial Here](#)
- Email us at training@iogs.org for more details
- Visit the Institute Website at www.iogs.org

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- Understand the use and importance of thermal insulation
- Identify the various types of thermal insulation material, their use, and limitations
- Gain knowledge of the protective jacketing and the importance of its use with the thermal insulation system
- Aware of insulation thicknesses, physical forms, layering, and fastening
- Differentiate the hot, cold, and acoustic insulation systems
- Understand the use of vapor barrier, vapor stop, and joint sealant
- Identify and address common quality issues and non-conformances
- Demonstrate the step-by-step process of installing a thermal insulation system
- Understand the CUI, its consequences, and the prevention strategies used
- Know the applicable standards and best practices, as well as interpret the drawings, spec, and procedures

ORGANIZATION IMPACT

Organizations that enroll their staff in this course will benefit from:

- Competent execution teams that contribute to timely project delivery
- Reduce re-work and avoid wastage
- Work completion following the stated requirements
- Enhanced project quality outcomes
- Tasks completed efficiently and accurately, with faster turnaround times
- Reduce the Corrosion Under Insulation Risk (CUI)
- Improved compliance with international standards, best practices, and regulatory requirements
- Enhance the reduction of heat movement into or out of processes
- Achieve the quality result
- Stronger client confidence in project execution and delivery

PERSONAL IMPACT

Participants will gain:

- Thermal insulation skills, knowledge & expertise
- A strong understanding of hot, cold, and acoustic insulation systems
- Enhanced professional credibility and career opportunities
- Confidence in carrying out the thermal insulation work
- Exposure to industry best practices and applicable standards
- Certificate of achievement for professional development records



Keep Learning



Keep Growing



Keep Succeeding

TOPICS COVERED

- Introduction and use of thermal insulation
- Why are pipes, equipment, tanks, and exchangers insulated?
- Heat transfer mechanism
- The 3 categories of insulation materials
- Popular insulation materials used in the oil & gas industry
- Insulation material's physical forms
- Temperature limitations and use
- Hot, cold, acoustic, and PP insulation systems
- Accessories, jacketing materials, and their roles
- Insulation materials properties
- The use of a vapor barrier and a vapor stop
- Metallic and non-metallic jacketing materials
- Jacketing finishes and coatings used

TOPICS COVERED

- Designing a thermal insulation system
- Tools and equipment required for insulation installation
- Installation of hot and cold insulation systems
- Corrosion under insulation (CUI) introduction
- What causes CUI, and how to detect and prevent it?
- Importance of specification, ITP, PDS, and MSDS
- Writing a thermal insulation procedure
- Anti-corrosion coatings used before insulation and their importance
- Thermal insulation inspection awareness
- Applicable standards and best practices
- Health and safety considerations
- Common health hazards associated with thermal insulation work and precautionary measures

Did you know a medium-sized oil refinery contains 465 miles of insulated piping and 1.6 million square feet of insulated equipment?



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Find Out More at
www.iogs.org

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