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Course Name

Heat Exchanger Inspection, Testing & Cleaning Method Techniques

Sector Name

Mechanical Engineering

Document Type

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Heat Exchanger Inspection, Testing & Cleaning Method Techniques

Course Introduction

A heat exchanger is a vital component used to transfer heat between two fluids—either liquids or gases—for various industrial applications.

The key purposes of heat exchangers include:

- ✓ Heating a cooler fluid using a hotter fluid
- ✓ Cooling down a hot fluid using a cooler fluid
- ✓ Boiling a liquid with a hotter fluid
- ✓ Condensing a gaseous fluid with a cooler fluid
- ✓ Simultaneous boiling of a liquid while condensing a hotter gaseous fluid

This course provides in-depth training on heat exchanger operation, maintenance, troubleshooting, and cleaning techniques to ensure optimal performance and longevity.

Heat Exchanger Inspection, Testing & Cleaning Method Techniques

Target Audience

- ✓ Mechanical Engineers
- ✓ Boiler Engineers
- ✓ Power Engineers
- ✓ Rotating Equipment Engineers
- ✓ Pipeline Engineers
- ✓ Marine Engineers
- ✓ Automotive Engineers
- ✓ High-Pressure Engineers
- ✓ Turbine Engineers
- ✓ Naval Architects
- ✓ Validation Engineers
- ✓ Senior Mechanical Engineers

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Learning Objectives

- ✓ Understand heat exchanger classifications and their working principles
- ✓ Learn various heat transfer methods and factors affecting heat transfer efficiency
- ✓ Gain knowledge on heat exchanger selection and performance optimization
- ✓ Explore best practices for inspection, maintenance, and cleaning techniques
- ✓ Develop troubleshooting skills to identify and resolve common heat exchanger problems
- ✓ Address

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Course Outline

✓ 01 DAY ONE

Fundamentals of Heat Exchangers

- ✓ Introduction to heat exchangers and their functions
- ✓ Types of heat exchangers and their applications
- ✓ Heat transfer methods: conduction, convection, and radiation
- ✓ Shell and tube heat exchangers: arrangement and flow

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Course Outline

✓ 02 DAY TWO

Heat Transfer & Common Maintenance Issues

- ✓ Direct contact heat exchangers: types and designs
- ✓ Heat exchanger maintenance challenges
- ✓ Heat transfer equipment components
- ✓ Tube bundles, tube sheets, and joint layouts
- ✓ Classification of heat exchangers based on applications

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Course Outline

✓ 03 DAY THREE

Heat Transfer Through Tubes & Applications

- ✓ Large steam system condensers
- ✓ Air conditioner evaporators and condensers
- ✓ Radiators, pre-heaters, boilers, gas heaters, and liquid heaters
- ✓ Innovations in shell and tube heat exchanger designs

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Course Outline

✓ **04 DAY FOUR**

Heat Exchanger Operations & Troubleshooting

- ✓ Identifying fouling, corrosion, and vibration issues
- ✓ Cavitation, recirculation, and flow turbulence problems
- ✓ Blockage detection and removal techniques
- ✓ Leakage prevention using sacrificial anodes

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Heat Exchanger Inspection, Testing & Cleaning Method Techniques

Course Outline

✓ 05 DAY FIVE

Inspection, Cleaning & Maintenance Techniques

- ✓ Inspection methods for leak detection (vacuum test, dye test)
- ✓ Cleaning strategies: mechanical and chemical cleaning
- ✓ Tube-side and shell-side cleaning procedures
- ✓ Safety equipment and best practices for maintenance
- ✓ Repair techniques: plugging, welding, and tube replacement
- ✓ Final review, evaluation, and course closeout

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 18, 2026	May 22, 2026	5 days	4950.00 \$	England , London
Sept. 7, 2026	Sept. 11, 2026	5 days	4950.00 \$	UAE , Dubai
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Dubai
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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