

# Fluid Flow and Heat Transfer in Industrial Applications

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2025-07-14

**End Date:** 2025-07-18

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 week

**Category ID:** METC

**Course Code:** METC-5

## Syllabus

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### **courses Introduction**

Explore the practical aspects of heat transfer and the operation of thermal equipment within chemical and petroleum industries with our specialized courses. Dive deep into the fundamental principles of heat exchange and fluid dynamics, gaining invaluable insights crucial for industrial applications. Skilllinx proudly presents the Fluid Flow and Heat Transfer in Industrial Applications courses as part of our comprehensive Maintenance Engineering Training program.

### **courses Objectives**

- Equip participants with practical, applied knowledge concerning heat transfer conditions and the functionality of thermal equipment in chemical and petroleum sectors.

### **courses Syllabus**

#### **Description of Thermal Equipment**

## **Heat Transfer**

- Learn about the characteristics of heat transfer modes and thermal flows.
- Study conduction, convection, and radiation, including thermal potential, resistance, conductivity, and special cases like phase changes and combustion gases.

## **Heat Exchangers**

- Explore heat exchange laws and fluid circulation modes.
- Examine special cases such as condensers, re-boilers, and air coolers, along with testing and performance monitoring.

## **Furnaces and Boilers**

- Understand working conditions, heat supply distribution, and combustion gas circulation.
- Study combustion mechanisms, industrial fuels, burner operation, and heat recovery methods.

By breaking down the courses content into easily digestible points over five days, participants can efficiently grasp each topic without feeling overwhelmed, ensuring maximum comprehension and retention.