



**JUSCHEM SOLUTIONS PRIVATE LIMITED**

Presents Online Training on

# “How to monitor and predict your heat exchanger performance to its best?”

## Includes

- Data Points to monitor
- Algorithms to be used
- Transform function and trending
- Using excel to predict

**BATCH: Date**

**Delivery Type: Online | Duration: 3 Hours | 1500 Hours to 1800 Hrs IST**

**Venue: Online through Microsoft Teams**



To Register please contact:9907203621 / 7985635683  
Email: [contact@just-chemicals.com](mailto:contact@just-chemicals.com)

## Professional Training

# How to monitor and predict your heat exchanger performance to its best? Across Heat Exchanger Condenser & Cooling Tower

## Introduction

This training has been developed to assist facility managers with the operation of their heat exchangers/condensers and to improve their understanding of the data driven monitoring with the goal of reducing energy consumption and predict/avoid failure of heat exchangers through improved operations. By reinforcing strong operational practices, introducing new concepts and raising overall awareness of operational excellence, it is expected that a system will more likely be operated at or near peak efficiency.

Water cooled or process cooled heat exchangers and condensers are very popular as they provide the most cost effective technology for cooling, heating, commercial air conditioning and industrial processes. In spite of these concerns, treatment and control of cooling tower water is commonly neglected, which is then responsible for substantial problems due to downtime, equipment damage, loss of process control, high water use, environmental violations, safety hazards, and increased energy usage.

This training is intended to provide the Heat exchanger operators and user with a advanced knowledge of monitoring of heat exchangers so that problems resulting from scale, deposition, and biological fouling can be avoided. Reduction of operating costs from increased efficiency in use of energy and operational excellence.

## Training Methodology

This training Program will be conducted online, on the lines of workshop principles with formal lectures and interactive examples. This will result in active participation of all delegates. There will be ample opportunities for active and open discussions, and sharing of professional experiences on various industrial applications. We will be using Impartus online platform or equivalent



## Personal Impact

- Improved confidence when solving problems of heat transfer
- Better understanding of how predict health of heat exchanger
- Better knowledge of heat transfer
- Improved personal skills of taking proactive action
- Better ability to troubleshoot difficult situations

## Objectives

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

- Identify leading indicators of heat transfer inhibition and can take proactive action to avoid costly shutdowns or equipment failures, and the impact on plant reliability
- Understand the cost-effectiveness of Preventive/Predictive Maintenance program through chemistry applications
- Apply techniques of troubleshoot or predict shutdown
- Create monitoring systems with trending to assess the cooling water treatment

## The knowledge gained in this seminar will:

- Enable the delegates to optimize the energy/fuel consumptions in HVAC, condenser or any heat exchanger are directly impacting energy consumption.
- Give the delegates skills to analyze efficiency and effectiveness of condensers & heat exchangers
- Give better insight to increase the life of heat exchangers
- Avoid downtime of production due to scale corrosion or bio-fouling

## Organizational Impact

On completion of this seminar the delegates will be able to analyze the operation and maintenance of various dynamics within the cooling water system and water chemistry; and suggest potential improvement in saving energy, fuel, water and most importantly life of equipment where required.

## Testimonial

Choice of the trainer has been excellent. The trainer enriched us with his experience & gave good insight on the subject

.....BPCL Kochi Refinery

Very well prepared PPT, Great audience from various companies sharing their live experiences.

.....Manager TATA Steel

Actual case study discussions were enriching

.....Head Chemistry Reliance Power VIPL



## How to monitor and predict your heat exchanger performance to its best?

Across Heat Exchanger Condenser & Cooling Tower

### Who Should Attend?

This training program is suitable to a wide range of professionals but will greatly benefit:

This training is addressed to all employees from the fields of **chemistry, mechanical and operation engineering**, who are in charge in the operation, planning or servicing of power plants. The training aims to explain the elementary chemical Engineering as well as to sensitize the participants on possible causes of errors during operation of water treatment plants.

**Expert Profile Mr. S Banerjee** – Mr. S Banerjee is a seasoned Power Plant Chemistry and Water Treatment professional with in-hand experience of about 25 yrs after passing M.Sc. Applied Chemistry from Government Engineering College, Jabalpur in 1995. He has worked with India's Pioneer Water Treatment Company and with Giant Private Power Generators in India viz. Tata Power, Adani Power, Jindal Power, LPGCL as HOD Power Station Chemistry and Environment. He has experiences of sub critical and super critical power plants, commissioning-O&M and troubleshooting of water treatment plants, boiler water, cooling water, stator water and waste water. He was also associated with a reputed Institute of Power Technology as a faculty on Water Treatment and Power Plant Chemistry. He has presented many papers on water treatment, power plant chemistry and water management in national seminars and magazines and has also written an academic text book on water treatment - power plant chemistry for regular post graduate degree curriculum of Jindal Institute of Power Technology. He has imparted training to 300+ delegates in last one year and still keeping touch with them and solving their problems.

The training courses conducted by [Just-Chemicals.com](http://Just-Chemicals.com) are thoroughly researched and structured by highly qualified & experienced professionals to provide intense and intimate practical training to your organisation.

