

## A Live Online Course

# WATER TREATMENT TECHNOLOGY

by

**Ir. In Jumanda Kasdadi, MT.**

## INTRODUCTION

Pelatihan ini memberikan pengetahuan dan pemahaman mengenai pengolahan air dan zat-zat kimia yang digunakan dalam pengolahan air. Pembahasan akan dimulai dengan siklus hidrologi, kimia dan sifat-sifat air. Pengetahuan air untuk berbagai keperluan dan konsep dasar pengolahan air juga akan dibahas.

Instruktur akan membahas secara lengkap unit-unit pengolahan air mulai dari pengolahan awal (primer), coagulation, flocculation, filtration, biological, disinfectant hingga water softener.

Setelah mengikuti pelatihan ini, peserta akan mendapatkan pengetahuan dan pemahaman mengenai cara-cara pengolahan air serta zat-zat kimia untuk megolahan air secara utuh dan menyeluruh.

## COURSE CONTENT

- **Introduction**
- **Hydrology Cycle, Chemistry and Properties of Water** (TSS, TDS and dissolved gases, acidity, alkalinity, salinity, hardness, BOD and COD, etc).
- **Water for Domestic & Industrial** (drinking water, service water, cooling water, BFW / Boiler Feed Water, etc).
- **Water Treating Concepts, Steps & Chemical.**
- **Primary Water Treatment & Chemical** (sand filtration, grid chamber, chemical for neutralization)

- **Coagulation & Flocculation Treatment & Chemical** (flocculants & coagulant chemical, reducing COD, BOD, TSS, TDS, dissolved gas)
- **Filtration, membranes and R.O (Reverse Osmosis) Treatment** (carbon filter, multimedia filter, Microfiltration (MF), Ultrafiltration (UF), Nanofiltration (NF), Reverse Osmosis (RO)).
- **Treatment & Chemical for Water Disinfectant** (chlorine, ozone, ultra violet light treatment).
- **Treatment & Chemical for Water Softener** (BFW / Boiler Feed Water, ion exchange resin, kation, anion, reducing harness, alkalinity).
- **Biological Water Treatment** (organics, bacteriological matter, aerobic & anaerobic bacteria).
- **Discussion, Case Studies, and Film.**

## ABOUT THE INSTRUCTOR

Ir. In Jumanda Kasdadi is an experienced instructor and he has been conducting training for oil and gas companies since 1997. He has BS and MS in chemical engineering degrees from the Institute Technology Bandung.

Companies that have received Mr. Kasdadi's inhouse training include Chevron, Pertamina Hulu Energi–ONWJ, ConocoPhillips, Total, Medco, Petrochina, Pertamina, Star Energy, and many others.

Ir. In Jumanda Kasdadi was involved in several Front-End Engineering Design (FEED) and Risk-Based Inspection projects.

## COURSE DELIVERY METHOD

- This live online course is conducted in Bahasa Indonesia.
- Each participant needs a PC and WIFI connection to attend this course.
- Participants will receive a certificate after completing the training.

## COURSE INFORMATION

Instructor: Ir. In Jumanda Kasdadi

Date: 22 - 25 June, 2021

Course fee: RP 9,500,000. Per person

## REGISTRATION

Two ways to register:

- Email your message to PT Loka Datamas Indah – [lditrain@indo.net.id](mailto:lditrain@indo.net.id) or
- Register online on our website [www.lditraining.com](http://www.lditraining.com)

For more information about the course, please contact PT Loka Datamas Indah.

Email: [lditrain@indo.net.id](mailto:lditrain@indo.net.id).

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