

A LDI Training Course

WATER TREATMENT TECHNOLOGY

by

Ir. In Jumanda Kasdadi MT.

Pendahuluan

Dikursus Water Treatment Technology kursus ini, peserta akan mendapatkan pengetahuan dan pemahaman mengenai pengolahan air dan penggunaan zat-zat kimia 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 dipelatihan ini.

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

Melalui pelatihan ini, peserta akan memahami proses pengolahan 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

Water for Domestic & Industrial - Drinking water, service water, cooling water, BFW / Boiler Feed Water

Water Treating Concepts, Steps & The Chemicals

Primary Water Treatment & The Chemicals - Sand filtration, grid chamber, chemical for neutralization

Coagulation & Flocculation Treatment & The Chemicals - Flocculants & coagulant chemicals, 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 & Chemicals for Water Disinfecting - Chlorine, ozone, ultraviolet light treatment

Treatment & Chemical for Water Softening - BFW / Boiler Feed Water, ion exchange resin, cation, anion, reducing hardness, 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.

For more information about the course, please visit lditraining.com or contact LDI Training at [HYPERLINK "mailto:lditrain@indo.net.id" lditrain@indo.net.id](mailto:lditrain@indo.net.id)

