Schedule for training program for Engineers of Mongol Refinery Project - IOCL Panipat Refinery (Refinery Part)

S. No.

Training Header

Topics

Duration (Days)

Demo on field operation related to major equipment like distillation columns, Pumps, compressors, Heat Exchangers, Fired Heaters,

their interconnections, accessories, main operating features etc. Basic concepts of APC strategies in process units and their

operation, Including introduction to refining units.

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Normal start-up shutdown and emergency handling of the plant

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Know Your Refinery (Process Units)

Work permit system, clearances before job execution, safety aspects of operation and maintenance activities

Operating manual and QC laboratory reports of the plant and their significance

Utilities, drainage system, operation of critical equipment, awareness on various activities during planned shutdown (M&I),

Off-site Areas - Dispatch and Receipt Section of OM&S, Steps involved in TTL, TWL operation, Liaison with Marketing and Pipelines

ETP Areas -Functioning of ETP, functionalities and significance of primary, secondary wastewater treatment, sources of wastewater,

Monitoring and Quality Control Aspects of ETP.

Know Your Refinery

Cooling Tower Areas - Functioning of Cooling Tower System, Various Aspect of Cooling Water Treatment, Monitoring of Cooling

Water parameters, winter protection

(Other than Process Units)

Tank Farm Areas - Functioning of Tank Farm Operation, types of tanks, accessories and instruments related to tanks (like tank

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manifold, various tank gauges, floating roof, dykes etc), fire protection system, activities related to tank M&l

Getting acquainted with plant personnel, interaction with them about actual plant operation, important roles being played by them,

roles of various grades of operators

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Know Your plant people & working

environment

Getting to know about the daily meetings, Learning the routine activities in shift management, scheduling of shift operator's work

hours. and liaison with other department, attending routine shop floor meeting

RTDBMS - Getting basic training on Plant-wide Real-Time Database Management System (RTDBMS), including data retrieving, trend

viewing, Use of MS Excel Add-in for report making etc. Hands-on in association with Process personnel

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Planning & Coordination - Understanding the planning process, basic concepts of yearly, monthly and daily planning, issues related

to daily interaction of P&C with plants and OM&S, making of daily operating report, concept of tank dip sheet, product finished

stocks, gross and certified stock, intermediate stock etc. Hands-on in association with P&C personnel

13 Learn Process Jobs - 1

Pollution Control - Understanding basic concepts of Pollution Control, monitoring and calculation pollution control parameters

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including MINAS, Statutary Regulations on Pollution Control. Effluent & Emission monitoring. Hands-on in association with Process

personnel

15 Learn Process Jobs - 2

16 Summing Up

Structured training on RPMS

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Summing Up

Interaction with Senior Officials, Written objective type tests, interviews, Close-up

24

