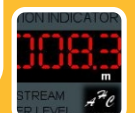
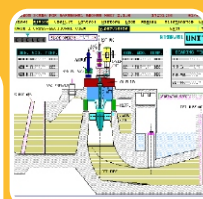


Real Time Digital Simulator Based
Training For
Fresh SHP Plant Engineer/Operator

Objectives

This hydro plant simulator based training course enables the participants to understand the best operating practice on maintenance and operation of Small Hydropower plants. It addresses the operation of water channel, penstock, gates and valves, turbine generator and auxiliaries, turbine generator control panel, plant day to day and emergency operations, and problems associated with hydro plant operation. The training equips the participant for operating practices with care, safety and incident free working of the plant.



Training Contents :

General :

- Introduction to Real Time Digital Simulator.
- Overview of Small hydropower plants.
- Small Hydropower plant layouts.
- Water conductor system overview.
- Hydraulic Turbine and auxiliary systems.
- Generator and accessories.

Operation of hydro plant under various operating conditions such as :

- Governing.
- Automatic voltage regulation.
- Auxiliary Power supply operation.
- Plant start up and synchronizing.
- Plant load pick up and drop out.
- Shutdown, Emergency shutdown.
- Trouble shooting and load rejection.

Other activities of plant :

- Hydraulic layout.
- Gate operation.
- Plant panel metering, indicating, operating switches.
- Plant equipment condition monitoring and taking readings.
- Routine maintenance.
- Plant safety and fire fighting.
- Plant outages and safety tagging system.
- Switch yard and power evacuation.
- Monthly and annual reports and log books.
- Oil pressure unit simulation.
- Reading of station single line diagram.
- Bearing cooling water simulation.

Duration : 15 Days

Who Should Attend : Fresh Engineer / Operator of small hydro power plants

