Learning Outcomes in Module Report

Module Code	SPC05
Module Name	Boiler Control (Operation, Environmental & Chemical)

Learning Outcomes

Code	Name	Hours	Description
5.0	Boiler Control (Operation, Environmental & Chemical)	6	On completion of this module the participant should understand the following concepts and apply them in day to day activities. The basic control loop Control signals; analog and digital Typical control system logic: - Combustion control - ID Fan Control - Steam temperature control - Drum level control Auto-manual change over The need for boiler water conditioning Scale deposits and their causes Continuous blowdown Phosphate addition Causes of carryover Effects of silica in boiler water Causes of internal corrosion pH control; caustic addition Congruent phosphate control Removal of O2 and CO2 from feedwater Oxygen scavenging; hydrazine Source of boiler pollutants Environmental effects of pollutants Pollution control equipment to reduce emissions of particulates, SOx, NOx, Treatment of liquid effluents and solid waste.

Count: 1