Learning Outcomes in Module Report

Module Code	SPC10
Module Name	Power Plant Maintenance

Learning Outcomes

Code	Name	Hours	Description
10.0	Power Plant Maintenance	6	After completion of this module and associated workbook, the participant should be able to understand the following concepts and apply them in day-to-day work activities. The objectives of maintenance, namely to retain equipment availability, capability and efficiency. The definition and relationship of different types of maintenance such as running maintenance, preventive maintenance, major overhaul, predictive maintenance, and breakdown maintenance. Typical running maintenance activities. The principals of preventive maintenance, i.e. regular scheduled inspection and replacement of components where necessary. The application of predictive maintenance through condition monitoring. Condition monitoring techniques, on line and off line. The application of NDE (Non-Destructive Examination) techniques. Reliability centred maintenance. The effect of operating regime on equipment deterioration. The need for planning, control and co-ordination of maintenance activities. Typical documentation which is used for maintenance control. The critical importance of recording measured values during overhaul inspection. The need to keep the equipment history file updated. Spare parts data. Flexibility of the maintenance schedule. Typical boiler maintenance activities, during operation and during overhaul. Boiler predictive maintenance activities. Boiler internal inspection. Maintenance of boiler auxiliary equipment. Typical outage schedule for turbine maintenance. Turbine condition monitoring activities. Typical maintenance activities during turbine overhaul. Maintenance of turbine auxiliary equipment. Generator running maintenance activities. Generator overhaul activities. Generator condition monitoring. Typical transformer maintenance

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Code	**Name**	**Hours**	**Description**
			activities. Typical switchgear maintenance activities.

Count: 1