



Training Course	Maintenance Planning and Scheduling
Course Duration	Total Number of hours 40 Dates : March 17 – March 21 2019 (session 1) October 6 – October 9 2019 (session 2) Time 8:00 AM – 2:00 PM Venue : Hotel in West Bay
Course Objectives	To provide a better understanding of: Explain key Maintenance Planning and Asset Management concepts. Apply best practice maintenance and reliability analysis processes to practically optimize equipment performance and reduce maintenance costs. Cost-justify different maintenance planning programs such as Run-to-Fail, On-Condition, and Predictive Maintenance. Understand how maintenance planning directly impacts plant and equipment life cycle costs. Understand and apply life cycle equipment performance to maintenance planning decisions and content. Target and improve equipment maintainability and/or reliability. Understand and apply asset maintenance strategies and performance management. Consider the long term versus the short-term costs of implementing an O&M job or task assuming many conditions. Use the philosophy of estimating the net value to the company when choosing the resources to complete a job (what is the life cycle cost benefit to whole plant/mill?) Identify the project risk points and explain how planning to manage or control the identified risk is part of the overall project.



Course Objectives	<p>Manage the importance of information linkages between all stakeholders of the project.</p> <p>Apply scheduling and control methods to impact deliverables such as implementation costs, time and quality.</p>
Course Content	<p>Course Key Topic Area Includes:</p> <p>Day 1:</p> <ul style="list-style-type: none">Instructor and delegate introductionsIntroduction to Planning, Estimating and SchedulingPlanner skills profilePlanning and life cycle managementUnderstanding key asset management definitionsCourse Pre-TestMaintenance planning processPlanning preparationActivity:<ul style="list-style-type: none">Critical equipment identification <p>Day 2:</p> <ul style="list-style-type: none">Job plans and packagesPre planningContingency planningOperational loading conditionsCase study:<ul style="list-style-type: none">Maintenance improvement strategiesMaintenance tactics and optionsPlanning principles and conceptsImplementing risk based planningUnderstanding life cycle characteristics



Course Content

Day 3:

Life cycle analysis and planning
Applying FMEA into a maintenance program
Activity:
Set key deliverables
Job planning steps
Implementing the plan (annual, monthly, weekly, daily)
As found and corrective work
Planning meetings
Overview of Estimating
Job estimating phases
Estimating principles and elements
Activity:
, height)

Day 4:

Estimating for time, cost and quality
Performance measures
Identifying and controlling risk
Estimating for various considerations (skill level, labor, weather, overtime, height)
Introduction to Scheduling
Scheduling and resources
Project flow charting
Flow charting exercises:
Schedule correction process
Continuous improvement
Schedule sample:
Estimating / scheduling case study
Performance measures (KPI's)
Scheduling case studies
Course Post-Test



<p>Learning Outcomes</p>	<p>At the end of the program the trainees will be able to:</p> <p>fully understand the principles, methods, and the effect of maintenance planning, estimating and scheduling process. They will be able to assess the potential of these methods at the background of their organization and to devise a process to introduce the methods and tools into the working environment. During the lectures, the instructor will present the key principles in each of the key areas</p> <p>Good maintenance and reliability performance involves good teamwork. The overall performance of a plant, its equipment and its personnel are all interrelated. Materials management, design, maintenance and operations business needs are also interrelated</p>
<p>Target Audience</p>	<p>Maintenance and Operations Planners and Schedulers Maintenance and Operations Supervisors, Reliability Engineers, Mechanical Engineers, Instrument Engineers, Electrical Engineers, RCM Team Members and Leaders.</p>
<p>Course Material /Exams / Technology used/ Details Relevant to the course.</p>	<p>Course Material: PPT Slides / Course book / Pre Test / Post test</p>



**Instructor Details
& Brief Instructor
Bio**

Earl Hill is a seasoned industry expert with over 30 years of incident investigation root cause and reliability experience. Earl is the author of a number of books on root cause analysis and led several engagements for industry leading organization in the Nuclear, Oil and Gas and Power Industries. Earl has taught over 50 courses throughout his career in over 15 countries.

Experiences:

Maintenance Management Consulting
30 years experience

Preventive Maintenance Program Development
30 years experience

Industry Consulting Experience
33 years experience

Course Fees

QAR 16,000 per participant

10 % corporate discount for 4 or more participants.

**Minimum number of participants
to deliver the course : 6**

Contact Person

Ms. Lijy Jose
Senior Training Specialist
Community Service and Continuing Education Center
Qatar University
Email : lijy@qu.edu.qa
Phone : 44034025