



Topic Outline

Introduction to Maintainability

Measuring maintainability

- Steady state and time-based measures, MTTR, MDT, Mmax

Overview of Maintainability

- Techniques for identifying issues and identifying improvement opportunities

Maintainability Design Reviews

- Review of the facility design process
- Human factor analysis and mechanical handling strategies
- 3D Reviews

Sequence of events approach to reducing downtime

- Adopt RCA techniques to subdivide a repair job into its main steps
- Look for constraints and how efficiency can be improved

What-if studies

- Working from a target availability to quantify new maintainability target

The MEA approach

- Identify high repair, downtimes or logistic times

Task streamlining

- SMED approach to repair
- PM reduction

Improvement tactics

Critical Path Analysis Shutdown Strategy planning

- Principles of network analysis
- Identifying critical and sub-critical activities

RAM modelling to identify opportunities

- Building a model of a system or facility
- Evaluating downtime for corrective and maintenance activities
- Evaluating what-ifs

15TH – 16TH JANUARY 2015

MAINTANABILITY: REDUCING DOWNTIMES & REPAIR TIMES

A lot of cost and time can be saved if practical maintainability is set up at the design phase. Maintainability is the ease of repairing equipment, measured in terms of repair time, downtime and man hours. Longer repair times mean greater downtime, lower availability and higher costs. With a number of metrics to measure downtime, such as MTTR, MMAX, Mean Downtime, there are often more attention being paid to reliability and very little towards maintainability.

This is a unique 2-day course will provide an in-depth look at reliability engineering, and team-based solutions that are effective in improving maintainability. Designed with practical application in mind, participants will be involved in hands-on exercises, and will receive a thorough course hand-out for reference.



Reservoir Engineering Division

Register Now!

For full details on the programme principal facilitator and to register, do not hesitate to contact us.

E-mail: enquiry@petro1.org

Tel: +603-7727-3952

www.petro1.com.my