Optimizing Equipment Maintenance and Replacement Decisions
Fitness for Service Analysis Approach

Why Choose This Online Training Course?

Major world companies in process and petrochemical industry have developed their maintenance practices based on the optimisation of predictive maintenance management system. This approach works well for both stationary and rotating equipment and includes continuous condition monitoring and the detailed inspection of vital elements of the equipment. The optimisation of the maintenance activities includes the spare parts handling, the selection of the right size and skill of maintenance crew with consideration of potential outsourcing i.e. subcontracting. Based on the collected data on reliability of the equipment in operation, Maintenance department can complete the Fitness for Service analysis based on which the decision can be made about 3Rs: Run, Repair or Replace, for the particular component of the equipment. Final decision regarding equipment replacement depends very much on the economic and safety aspect that must be taken into consideration.

This intensive 3-day on-line course is intended to introduce the participant to the process of making decisions regarding equipment maintenance optimisation including equipment repair and replacement. Various optimisation techniques will be presented and the optimisation criteria explained in detail. The course will include several practical examples and workshop exercises to emphasize the key learning points.
WHAT ARE THE GOALS?

At the end of this PetroKnowledge online Oil & Gas training course, you will learn how to:

- Identify equipment failures, and the impact on plant reliability
- Understand the cost-effectiveness of Preventive / Predictive Maintenance
- Apply techniques of evaluation of various maintenance activities
- Define criteria for work-crew size, spare parts and equipment replacement
- Make the important decision on the basis of the cost-benefit analysis
- Incorporate safety objectives to the equipment repair or replacement optimisation

WHO IS THIS ONLINE TRAINING COURSE FOR?

This online training course is suitable to a wide range of professionals but will greatly benefit:

- Technical professionals in Operation, Production
- Technicians and engineers responsible for maintenance and repair of equipment
- Professionals involved in inspection and reliability
- Technical Professionals dealing with risk assessment and integrity analysis

HOW WILL THIS ONLINE TRAINING COURSE BE PRESENTED?

This PetroKnowledge online training course will utilize a variety of proven online learning techniques to ensure maximum understanding, comprehension, retention of the information presented. The training course is conducted online via an Advanced Virtual Learning Platform in the comfort of your choice location.

DAILY AGENDA

- Maintenance Management: Preventive / Predictive Approach
- Material Degradation and Failure Mechanisms
- Failure Modes & Effect Analysis (FMEA)
- Reliability and Availability Concept: MTBF & MTTR
- Management of Change: In-Kind Spare Parts
- Spare Parts Provisioning: Prediction Models and Techniques
- Risk Based Inspection (RBI), Condition Monitoring and Reliability
- Fitness for Service Analysis (FFS)
- Management of Maintenance Resources: Use of CMMS
- Equipment Repair or Replacement Decision

Register Now  Request an In-House

QUALITY CERTIFICATION

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