PROJACS ACADEMY
by egis

Implementing Facility Management and Equipment Maintenance Reliability (IFMAM Workshop 2, 3)

تنفيذ وتطبيق المعايير العالمية في إدارة المرافق وصيانة المعدات والموثوقية

10 - 21 July 2023

Istanbul / Turkey

Introduction

The program is designed in the form of a series of lectures and case studies to provide an understanding of the concept of operations and maintenance and the efficient management of facilities. This program offers an opportunity to improve knowledge and skills of those who are responsible in managing and supervising the operations and management of facilities and for those who desires an uninterrupted service to clients and users of facilities. All these targets will be achieved as participants are exposed to the experiences and knowledge of speakers who have been in this business for more than a decade.

Equipment Maintenance and Reliability Managing is a critical task for every successful industrial organization. This intensive course has been designed to benefit engineers and technicians who are involved in the operation and maintenance of any industrial unit. It covers all the fundamentals of Maintenance management strategies as well as the advanced techniques of maintenance planning & monitoring. Focuses are directed on basic concepts of Equipment reliability & maintenance programs.

The understanding of possible reasons leading to machinery failure is important to personnel involved to machinery, design, manufacture, operation and maintenance. This will help all of them to take possible precessions in their jobs to avoid future failures.

Who Should Attend?

Participants from organizations where the reliability, performance and attendant risks of fixed assets have a significant impact on business performance, will benefit most from this course. This course is suitable for engineering and technical managers, project managers and project engineers, operations managers, maintenance managers, Facilities Managers, EHS and quality managers, and procurement and supply chain managers.

Course Outline

Day One

Overview of Asset and Facility Management theory and concept

- Understanding Asset Life Cycle
- Operation & Maintenance versus Facilities Management
- Asset and Facilities Management Challenges and Future Trend

Day Two

Contract Types

Decision Making and Thinking Theory

- Conceptual Framework of Thinking Skills and Decision Making.
- Divergent and Convergent Thinking in Decision Making.
- Critical Constructive Thinking in Decision Making.

The Need for Strategic Planning for facility Management

- Organizational Performance
- Problems
- Quality
- Power/Authority
- Competitiveness

Principles of Strategic Planning

Day Three

Facilities Management

- Service Delivery Philosophy and Strategy
- Implementation Plan, Cost Strategy and Organization Structure
- Integrating Sustainable Development in FM

Management Reports

- Maintenance Backlog Report
- Maintenance Performance Report

Monthly Status Report

Day Four

Facilities Planning and Design

- Facilities Management
- Principles and Techniques
- Key Aspects of Facility Planning & Design

Facility Operation

- Challenges

- Performance Indicators
- Evaluation

Day Five

Operations Management Implementation

- Understanding Operations and Maintenance Management
- Analyzing Operation Processes & Developing Operation Strategies

Day Six and Seven (Weekend)

Day Eight

Types of Maintenance

- Maintenance philosophy
- Reactive maintenance
- Time based maintenance
- Condition based maintenance
- Proactive maintenance
- Application of maintenance programmers
- Causes of machine failures.

Day Nine

- Maintenance strategies
- Inspection & remaining life evaluation of process plant equipment
- Applying the predictive approach
- Surviving the maintenance shutdown
- The planning & scheduling machines
- Strategic Human Resources Management
- The Nature of Managerial Work
- Change Management

Day Ten

Reliability Centered Maintenance (RCM) Serves as a Translation of the Design Objective

- Total Productive Maintenance (TPM)
- Reliability Based Maintenance (RBM)
- Probabilistic Safety Analysis (PSA) Based Maintenance

Generalized Machinery Problem-Solving Sequence

- Situation Analysis. Cause Analysis.
- Action Planning and Generation.
- Decision Making. Planning for Change. References.

- Update master milestone schedule-MMS with plant shutdown details

Day Eleven

Maintenance Control Systems/ Procedures

- Effective Communication
- Leadership in Teams
- Leadership in Decision Groups
- Leadership Styles and Six Competence Levels
- Developing Leadership skills

Typical Files for Maintenance Control

- Work Request/Order Backlog File
- Scheduling Backlog File
- Awaiting Materials File
- Preventive Maintenance Control File
- Closed Work Request/Order File
- Inventory Control File

Management Reports

- Maintenance Backlog Report
- Maintenance Performance Report
- Monthly Status Report
- Application planning sheet
- Building maintenance scheduling
- Case Study & Application
- Maintenance project management and planning module

Day Twelve

Preparing maintenance plan

- Planning sheet
- Planning of spare parts (Maintenance Material Control)
- Stock holding costs
- Stock ordering costs
- Lead time elements
- Economical order quantity EOQ

Materials requirements planning (MRP)

Computer applications in maintenance control

Training Method

- Pre-assessment
- Live group instruction
- Use of real-world examples, case studies and exercises
- Interactive participation and discussion
- Power point presentation, LCD and flip chart
- Group activities and tests
- Each participant receives a binder containing a copy of the presentation.
- slides and handouts.
- Post-assessment

Program Support

This program is supported by interactive discussions, role-play, case studies and highlight the techniques available to the participants.

Schedule

The course agenda will be as follows:

- Technical Session 08.30-10.00 am
- Coffee Break 10.00-10.15 am
- Technical Session 10.15-12.15 noon
- Coffee Break 12.15-12.45 pm
- Technical Session 12.45-02.30 pm
- Course Ends 02.30 pm

Course Fees*

- **5,950 USD**
  **VAT is Excluded If Applicable*

المقدمة

تم تصميم البرنامج على شكل سلسلة من المحاضرات ودراسات الحالة لتوفير فهم لمفهوم العمليات والصيانة والإدارة الفعالة للمرافق. يوفر هذا البرنامج فرصة لتحسين المعرفة والمهارات لأولئك المسؤولين في إدارة والإشراف على عمليات وإدارة المرافق وأولئك الذين يرغبون في خدمة مستمرة للعملاء ومستخدمي المرافق. سيتم تحقيق كل هذه الأهداف حيث يتعرض المشاركون لتجارب ومعرفة المتحدثين الذين عملوا في هذا المجال لأكثر من عقد من الزمان.

تعد صيانة المعدات وإدارة الموثوقية مهمة حاسمة لكل مؤسسة صناعية ناجحة. تم تصميم هذه الدورة المكثفة لإفادة المهندسين والفنيين الذين يشاركون في تشغيل وصيانة أي وحدة صناعية. يغطي جميع أساسيات استراتيجيات إدارة الصيانة بالإضافة إلى التقنيات المتقدمة لتخطيط الصيانة ومراقبتها. يتم توجيه التركيز على المفاهيم الأساسية لموثوقية المعدات وبرامج الصيانة.

يعد فهم الأسباب المحتملة التي تؤدي إلى فشل الآلات أمرًا مهمًا للموظفين المعنيين بالآلات والتصميم، والتصنيع والتشغيل والصيانة. سيساعدهم هذا جميعًا على اتخاذ الإجراءات المسبقة الممكنة في وظائفهم لتجنب الفشل في المستقبل.

الحضور

سيستفيد المشاركون من المنظمات التي يكون لموثوقية الأصول الثابتة والأداء والمخاطر المصاحبة لها تأثير كبير على أداء الأعمال. هذه الدورة مناسبة للمديرين الهندسيين والفنيين ومديري المشاريع ومهندسي المشاريع ومديري العمليات ومديري الصيانة ومديري المرافق ومديري البيئة والصحة والسلامة والجودة ومديري المشتريات وسلسلة التوريد.