

## A LDI Training Course

# INTEGRATED MAINTENANCE MANAGEMENT

by

LDI Instructor

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## BACKGROUND

- To provide information on how to obtain strict supervision and to improve communication in order to gain better control over maintenance jobs.
- Directing the preparation of the format-work order system using daily schedules, weekly and monthly, timely programs and planning changes to keep the cost of maintenance costs remain low.
- Give orders on how to recognize the changing operating costs by operating the plants and use of equipment, how to analyze factors that affect efficiency employees and how to work within a fixed budget can complete maintenance work on time
- Presenting coverage for all major elements of preventive maintenance programs and how to implement it

## OBJECTIVE

After the training, the participants will have the knowledge and skill to:

- Reduce the frequency and non productive time
- Optimizing maintenance costs
- Increase employee productivity
- Organize maintenance work, including emergency work, effectively
- Understand how to make planning and scheduling
- Improve efficiency procedures

## COURSE OUTLINE

### Introduction

- Maintainability versus maintenance
- Maintenance Category
- Maintenance Function
- Maintenance Challenge
- Maintenance Time Relationship

### **Key Requirements For Effective Maintenance**

- Gambling With Maintenance
- Profit-and Customer-Centered Maintenance
- Where is Your CMO?
- Key Requirements

### **Reliability Factors**

- Reliability Function
- Failure rate and MTBF
- Series, Parallel and Combined Network
- Probability of Survival
- Reliability Growth Curves

### **Maintenance Information Flow**

- Maintenance Excellence Pyramid
- Managing maintenance work
- Work Planning
- Work Scheduling
- Work Execution
- Long-term Follow-up Activities

### **Managing Preventive Maintenance**

- Preventive Maintenance
- PM Strategy for 3 Equip. Life Cycles
- Justifying PM Expenditures
- Installing PM Systems
- Access to Equipment
- PM FREQUENCY: How often to Perform the PM
- Common Task
- Staffing the PM Effort
- Strategies to Get PM Done
- PM System Increase Professionalism

### **Estimating Maintenance Budget**

Introduction  
Zero-Based Budget (Z-BB)  
How to Start?  
Estimating Maintenance Budget

### **Maintenance Store And Inventory Control**

Introduction  
Maintenance Store Component  
Conditions Tending to Increase Maintenance Stores Inventory  
Conditions Tending to Reduce Maintenance Stores Inventory  
Centralized vs Decentralized Storeroom  
Principles of Maintenance Stores Control  
Procedural Guidance and Recommendations

### **Computerized Maintenance Management Systems (CMMS)**

Benefits of Improved CMMS  
CMMS Justification  
Determining the True Need for CMMS  
Determining Maintenance Best Practices Needed

CMMS Evaluation and Selection Process  
Establish the CMMS Team  
Get Outside Help when Needed

#### **Maintenance Performance Indicators**

Performance Measures versus Benchmarking  
Benchmarking  
Performance Measures  
Measuring MPI

### WHO SHOULD ATTEND

- Maintenance Manager/ Superintendent/ Supervisor/ Engineer
- Plant Manager/ Superintendent/ Supervisor/ Engineer
- Operation Manager/ Superintendent/ Supervisor/ Engineer
- Everybody or professional who want to get benefit or broaden knowledge from this course

### YOUR COURSE INSTRUCTOR

**DR. Ir. I Wayan Suweca** graduated from Department of Mechanical Engineering Institute Technology of Bandung in 1985. He received his Master degree, in 1987 from Ecole Centrale de Lyon, French. He then continued to pursue a Ph.D. degree and he was awarded in 1990. He is a faculty member of the Mechanical Engineering Department, since 1987. He gives courses on Mechanical Drawing, Design of Machine Element, Finite Element Method, Computer Aided Design/Engineering, Fundamental of Mechanical Design, and Design Optimization. His research interests are in mechanical design, in design optimization, in design methodology, in vibration control, and in reliability centered maintenance. He has published/presented many papers in national and international seminars/proceeding in the field of mechanical design, design optimization, vibration control, finite element, stress analysis, and computer aided design. His experience in many industries as an engineering consultant and/or as inhouse training instructor for PT Tambang Batubara Bukit Asam, PT Timah Tbk, PT Tambang Timah, PT PAMA Persada, PT Freeport Indonesia, PT Pertamina, PT Kondur Petroleum S.A., PT Chevron Indonesia, Total Indonesie, PT Astra International, PT Daihatsu Motor, PT INKA, PT KAI, PT Medco Energy, PT PGN, and many others. He also gives several short courses for public in Pipe Stress Analysis, Failure Analysis, Finite Element Method, Mechanical Design, Bearing Technology & Lubrication, Integrated Maintenance Management, Best Practices in Preventive and Predictive Maintenance, Maintenance Planning and Scheduling, Industrial Valve Technology, Industrial Hydraulic, and many others.



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