

Total Productive Maintenance (TPM)

Technical Proposal

Scope

training course addresses the needs of a diverse audience with an interest in All activities involved in keeping a system in working order, including:

- **Operation Engineers who have oversight responsibility for Plant operations**
- **Maintenance Engineers with direct line responsibility as well as staff support responsibility for delivering on effective Plant Maintenance**
- **Plant Start-up and Commissioning Managers and Engineers**
- **Technical personnel & supervisors involved in supporting Plant Start-up, Maintenance and shutdown**

Terms To Understand

1. **Introduction to Lean**
 - **Value**
 - **Value Stream**
 - **Flow**
 - **Pull**
 - **Perfection**

Mustafa Mahmoud
Maintenance & Management Consultant
+201005573098



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Total Productive Maintenance (TPM)

- 8 Deadly wastes
- 2. Introduction to total productive maintenance
 - Types of maintenance
 - Benefits of TPM
 - TPM Vs Traditional Maintenance
 - TPM Key equipment measures
 - Maximizing Production effectiveness
 - Elements of overall effectiveness
 - OEE and six big losses
 - TPM 8 pillars & 3 foundations
 - TPM Development
- 3. 5s+1
- 4. Autonomous maintenance
 - Autonomous Maintenance
 - Why must we make it simple?
 - Initial Clean-Up
 - Countermeasures for Source of Contamination
 - Cleaning and Lubrication Standards
 - Overall Inspection
 - Autonomous Maintenance Standards
 - Process Quality Assurance
 - Autonomous Supervision
- 5. Planned Maintenance
 - Evaluate Equipment Current Condition
 - Restore Deterioration and weaknesses Correction
 - Build Information Management System
 - Build Periodic Maintenance System
 - Build Predictive Maintenance System
 - Planned Maintenance System Evaluation
- 6. Focused Improvement
 - Selecting Improvement Topic

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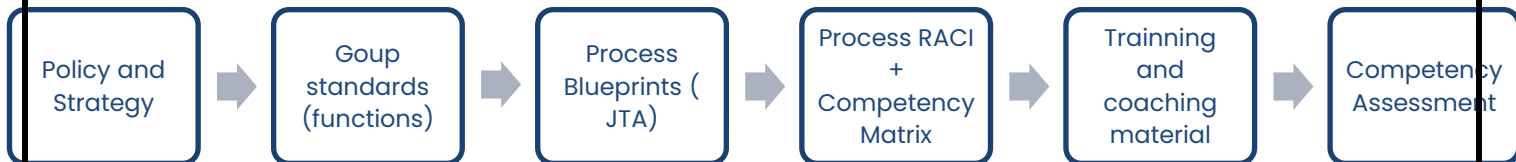
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Total Productive Maintenance (TPM)

- Understanding the Situation
- Expose and Eliminate Abnormalities
- Analyse Causes
- Plan Improvement
- Implement Improvement
- Check Results
- Consolidate Gains

7. Education and Training

- Define Training needs
- Design and plan training
- Provide for Training
- Evaluate training outcomes.



Technical Proposal

Outline

Introduction to lean

5s+1

Autonomous maintenance

Continuous improvement

Planned maintenance

Education & training

Case Studies

Financial Proposal

Mustafa Mahmoud
Maintenance & Management Consultant
+201005573098



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Total Productive Maintenance (TPM)

- Total number of course days are 5 days --8Hours / Day
- Total course hours are 40 hours
- The course includes 45 minutes break each session

Mustafa Mahmoud
Maintenance & Management Consultant
+201005573098



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