



IN-HOUSE (ON-SITE) TRAINING PROGRAMMES



INTRODUCTION

Many companies, today, operate some of the most sophisticated technology, high capital cost equipment, all of which needs maintaining to exacting quality standards and to high end user availability. The sophistication and complexity of today's manufacturing equipment and controls has led to the recognition that installations require dedicated, professional maintenance management which should be adaptable to the production requirements of the company. This has led to a number of organizations reappraising objectives, methods and working practices of maintenance in their plants.

It's imperative for maintenance engineers, technical executives & supervisors to aim for maximizing uptime and overall equipment effectiveness; minimize downtime and achieve zero breakdowns; arrest various abnormalities, resource wastage & economic losses; promote efficiency, productivity and control costs; adopt modern maintenance management practices, approaches & techniques; thrust upon plant safety and energy conservation programmes; and, so on – in fact, the list is endless. It's therefore, maintenance personnel who keep carrying out some form of maintenance or the other, often so religiously, need to broaden their background with new dimensions in maintenance management which have been evolved in the recent years.

The importance of having a maintenance strategy, which enables to improve maintenance performance in a way that supports the overall economic goals of the company, cannot be over-emphasized.

IN-HOUSE TRAINING PROGRAMMES OFFERED BY IMME

IMME conducts a wide range of In-house Training Programmes for maintenance engineers, technical executives, supervisors, etc. at company's training centre/plant site, focused on various themes, modules or topics suiting to the training requirements of different companies. These programmes provide a great impetus to renewed thinking and facilitate participants how to go about various cost-effective improvements in their plants.

Different themes, modules and topics for various In-house Training Programmes are mentioned in this document. As per the instructions given below, you can select suitable In-house Training Programme(s) either from Category-A (*Standard Programme*), or Category-B (*Customized Programme*), or Category-C (*Customized Programme*) and communicate the same to immeinstitute@gmail.com to receive complete proposal regarding the programme selected by you, such as programme introduction & coverage, programme schedule, cost estimates and terms & conditions along with brief profile of the faculty for your consideration.

METHODOLOGY

The methodology for conducting In-house Training Programmes is briefly described as below:

- Focused Presentation
- Interactive Discussions
- Case Studies and Practical Examples
- Participants' Problems / Question Answer Sessions
- Group Discussion on Your Plant Problems
- Project Assignments

SELECTING A SUITABLE IN-HOUSE TRAINING PROGRAMME

Based on your requirements, you can select a suitable In-house Training Programme either from Category-A (*Standard Programme*), or Category-B (*Customized Programme*), or Category-C (*Customized Programme*).

CATEGORY-A: In-house Training Programme (*Standard Programme*)

Select one of the following in-house training programmes you intend to organize at your site / training centre and decide the duration of the programme (2-day or 3-day) suited to you. *Please send this information to IMME to obtain a detailed proposal on your proposed programme in Category-A (Standard Programme).*

<u>S.NO.</u>	<u>TITLE OF THE TRAINING PROGRAMME</u>	<u>DURATION</u>
1.	Improving Maintenance Cost-effectiveness Or Maintenance Cost Control	2 day or 3 day
2.	Planned Maintenance Systems and Procedures Or Maintenance Planning, Scheduling and Control	2 day or 3 day
3.	Condition-based Predictive Maintenance	2 day or 3 day
4.	Machine Failure Analysis and Control	2 day or 3 day
5.	Machine Reliability and Maintainability Improvement	2 day or 3 day

6.	Spare Parts Management and Spares Inventory Control	2 day or 3 day
7.	Creative Thinking for Innovation and Problem-solving Or Maintenance Problem-solving through Creative Techniques	2 day or 3 day
8.	Total Productive Maintenance	2 day or 3 day
9.	Maintenance Productivity Improvement	2 day or 3 day
10.	Maintenance Cost and Downtime Control	2 day or 3 day
11.	Maintenance for Zero Breakdowns	2 day or 3 day
12.	Maintenance Cost Control and Spare Parts Management	2 day or 3 day
13.	Preventive and Predictive Maintenance	2 day or 3 day
14.	Machine Failure Analysis and Reliability & Maintainability Improvement	2 day or 3 day
15.	Creativity and Value Analysis for Maintenance Functions	2 day or 3 day
16.	Total Productive Maintenance and Maintenance Improvement	2 day or 3 day
17.	Quiz Programme on Maintenance Management	2 day
18.	Maintenance Management	2 day or 3 day
19.	Maintenance Engineers Development Programme	2 day or 3 day
20.	Maintenance Workers Development Programme	2 day or 3 day
21.	Reliability-centred Maintenance (RCM)	2 day
22.	Best Practices in Maintenance Management	2 day
23.	World Class Maintenance Management	2 day or 3 day

CATEGORY-B: In-house Training Programme (Customized Programme)

If you intend to customize your programme, you can select few topics of your choice from Category-B. Further, please select as many 1-day topics from the following list which add up to coincide with the duration of the programme (2-day or 3-day) decided by you. For example, simply select two 1-day topics for a 2-day programme and select three 1-day topics for a 3-day programme. *Please send this information to IMME to obtain a detailed proposal on the proposed programme based on various topics selected by you in Category-B (Customized Programme).*

<u>S.NO.</u>	<u>TOPICS FOR THE CUSTOMIZED PROGRAMME</u>	<u>DURATION</u>

1.	Maintenance Cost Reduction	1 day
2.	Planned Maintenance Systems and Practices	1 day
3.	Preventive Maintenance	1 day
4.	Condition-based Predictive Maintenance	1 day
5.	Systematic Breakdown Analysis and Downtime Reduction	1 day
6.	Spares Inventory Control	1 day
7.	Machine Reliability and Maintainability Improvement	1 day
8.	Maintenance Productivity Improvement	1 day
9.	Creative Thinking for Problem-solving Or Creativity and Brainstorming Techniques	1 day
10.	Total Productive Maintenance	1 day
11.	Value Analysis for Maintenance Functions	1 day
12.	Quiz Programme on Maintenance Management	1 day
13.	Plant Safety	1 day
14.	Energy Conservation	1 day
15.	Development Programme for Maintenance Workers	1 day

CATEGORY-C: In-house Training Programme (Customized Programme)

If you intend to customize your programme, you can also select few topics of your choice from Category-C. Further, please select few ½-day and/or ¼-day topics from the following list, which add up to coincide with the duration of the programme (2-day or 3-day) decided by you. For example, for a 2-day programme, you may select four ½-day topics, or two ½-day topics & four ¼-day topics, or eight ¼-day topics and likewise. *Please send this information to IMME to obtain a detailed proposal on the proposed programme based on various topics selected by you in Category-C (Customized Programme).*

<u>S.NO.</u>	<u>TOPICS FOR THE CUSTOMIZED PROGRAMME</u>	<u>DURATION</u>
1.	Maintenance Cost Reduction	½ day
2.	Maintenance Productivity Improvement	¼ day or ½ day
3.	Planned Maintenance Systems and Practices	½ day
4.	Application of Gantt Charts and PERT/CPM in Maintenance Planning	¼ day or ½ day

5.	Effective Planned Lubrication	¼ day
6.	Effective Preventive Maintenance	¼ day
7.	Measurement of Maintenance Performance & KPIs	¼ day
8.	Productive Maintenance Methods	¼ day
9.	Maintenance Time Wastage Analysis	¼ day
10.	Plant Downtime Reduction	¼ day
11.	Systematic Breakdown Analysis	¼ day
12.	Spares Inventory Control	¼ day or ½ day
13.	Tribology	¼ day or ½ day
14.	Terotechnology and Life Cycle Cost	¼ day
15.	Condition-based Maintenance	¼ day or ½ day
16.	Machine Reliability and Maintainability Improvement	½ day
17.	Total Productive Maintenance	½ day
18.	Creative Thinking for Problem-solving	½ day
19.	Value Analysis for Maintenance Functions	¼ day or ½ day
20.	Role of Maintenance in Energy Conservation	¼ day or ½ day
21.	Role of Maintenance in Plant Safety	¼ day or ½ day
22.	Equipment Selection / Replacement	¼ day or ½ day
23.	5S Pillars of Visual Workplace	¼ day
24.	SMED (For Quick Changeovers)	¼ day
25.	OEE Concepts & Improvement of OEE	¼ day
26.	Autonomous Maintenance	¼ day
27.	Root Cause Analysis (RCA)	¼ day
28.	Case Studies on Failure Analysis	¼ day or ½ day
29.	Case Studies on Reliability Improvement	¼ day or ½ day
30.	Brainstorming Techniques	¼ day

CORE COMPETENCE AND SPECIALIZATION OF OUR FACULTY

Highly experienced faculty of IMME thrive on core competence and specialization in designing and conducting top quality training programmes, courses, seminars & workshops on different themes, modules and topics related to various aspects of maintenance management functions.

DETAILED PROPOSAL

As suggested in the brochure, please select a programme of your choice from Category-A, or the programme topics for your customized programme from Category-B or Category-C, and decide the duration of the programme suited to you. Please e-mail this information to immeinstitute@gmail.com to obtain detailed proposal on your proposed programme, including programme introduction & coverage, programme schedule, cost estimates and terms & conditions, faculty details, etc.

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EXCELLENCE IN TRAINING FOR OVER 30 YEARS

CLIENTS FOR IN-HOUSE TRAINING PROGRAMMES

Tens of thousands of candidates from a large number of reputed companies in the corporate sector have participated in different training programmes & courses conducted by IMME in a period of over 30 years.

Some of the companies where IMME have conducted various In-house Training Programmes at their training centres / plant sites are shown below:

<u>NAMES OF THE COMPANIES</u>	<u>IN-HOUSE TRAINING PROGRAMMES</u>
• Aditya Birla Chemicals (India) Ltd. (Formerly Kanoria Chemicals & Industries Limited)	- Planned Maintenance Systems and Procedures
• Ambuja Cements Limited (Ropar Unit)	- Plant Safety
• Asahi India Glass Ltd.	- Operators Development Programme for Effective Maintenance (<i>For Plant Operators in Hindi</i>) - Machine Failure Analysis and Control - Maintenance Cost Control
• Asian Paints Limited	- Maintenance Development Programme for Technicians -I - Maintenance Development Programme for Technicians -II

• Atul Limited	- Maintenance for Zero Breakdowns
• Autometers Alliance Ltd.	- Effective Maintenance
• Aqua Hydro Power Ltd.	- Safety Awareness
• BTR Wadco Automotive Ltd.	- Total Productive Maintenance
• Bajaj Auto Ltd.	- Maintenance Problem-solving Through Creative Techniques
• Bajaj Dhatu Udyog	- Planned Maintenance Systems and Procedures
• Ballarpur Industries Ltd. (Unit : Shree Gopal)	- Total Productive Maintenance - Spares Inventory Control - Preventive and Predictive Maintenance - I - Preventive and Predictive Maintenance - II
• Bata India Ltd.	- Preventive and Predictive Maintenance
• Bharat Aluminium Co. Ltd.	- Improving Maintenance Cost-effectiveness - Planned Maintenance Systems and Procedures - Machine Failure Analysis and Control - Maintenance Problem-solving Through Creative Techniques - Condition-based Monitoring - Best Maintenance Practices & RCM
• Bharat Yantra Nigam Ltd.	- Maintenance Management
• Birla Cellulosic (A Unit of Grasim Industries Ltd.)	- Maintenance Technicians Development Programme - I <i>(For Maintenance Technicians in Hindi)</i> - Maintenance Technicians Development Programme - II <i>(For Maintenance Technicians in Hindi)</i>
• Birla Tyres	- Cost-effective Maintenance
• Bundy India Ltd.	- Maintenance Management
• Cadbury India Ltd.	- Condition-based Maintenance
• Confederation of Indian Industry (CII) and Regional Engineering College (REC)	- National Workshop on “Innovations in Maintenance Techniques”
• DCM Engineering Products (A Divn. of DCM Limited)	- Machine Failure Analysis and Control
• DCM Management Development Centre	- Maintenance Problem-solving Through Creative Techniques - Condition-based Maintenance
• Deepak Fertilisers and Petrochemicals Corporation Ltd.	- Maintenance Planning, Scheduling and Control - Machine Reliability and Maintainability Improvement
• Digjam Limited	- Total Productive Maintenance

(Formerly Birla VXL Limited)	
<ul style="list-style-type: none"> Durgapur Cement Works (Unit of Birla Corporation Ltd.) 	- Maintenance Management
<ul style="list-style-type: none"> Finolex Industries Ltd. (PVC Resin Division) 	- Maintenance Workers Development Programme <i>(For Maintenance Technicians in Hindi)</i>
<ul style="list-style-type: none"> GKN Driveline (India) Ltd. (Formerly GKN Driveshafts (India) Ltd.) 	- Condition-based Maintenance
<ul style="list-style-type: none"> Gammon India Limited 	- Planned Preventive and Predictive Maintenance Systems and Practices
<ul style="list-style-type: none"> Gillette India Ltd. (Formerly Indian Shaving Products Ltd.) 	- Total Productive Maintenance - TPM Implementation
<ul style="list-style-type: none"> Godrej Consumer Products Ltd. (Formerly Godrej Soaps Ltd.) 	- Maintenance Management
<ul style="list-style-type: none"> Grasim Industries Limited (Unit: Harihar Polyfibres & Grasilene Division) 	- Maintenance Management
<ul style="list-style-type: none"> Halonix Limited (Formerly Phoenix Lamps India Ltd.) 	- Maintenance Management
<ul style="list-style-type: none"> Hindalco Industries Ltd. 	- Maintenance Problem-solving Through Creative Techniques - Maintenance Management - Preventive and Predictive Maintenance Tools & Techniques with Safety in Maintenance
<ul style="list-style-type: none"> Hindalco Industries Ltd. (Renusagar Power Division) 	- Maintenance Problem-solving Through Creative Techniques - Excellence in Maintenance Management - Machine Reliability and Maintainability Improvement - Condition-based Maintenance and Vibration Analysis - Maintenance Cost Control and Spare Parts Management
<ul style="list-style-type: none"> Hindustan Organic Chemicals Limited 	- Maintenance Management
<ul style="list-style-type: none"> Hindustan Unilever Limited (Formerly Hindustan Lever Limited) 	- Total Productive Maintenance
<ul style="list-style-type: none"> Hindustan Zinc Limited (Debari Zinc Smelter) 	- Total Productive Maintenance
<ul style="list-style-type: none"> Hindustan Zinc Limited (Chanderiya Lead Zinc Smelter) 	- Total Productive Maintenance
<ul style="list-style-type: none"> ITC Limited 	- Maintenance Workers Development Programme <i>(For Maintenance Technicians in Hindi)</i>

<ul style="list-style-type: none"> ITC Limited (Paperboards & Speciality Papers Division) (Formerly ITC Bhadrachalam Paperboards Ltd.) 	<ul style="list-style-type: none"> - Maintenance Problem-solving Through Creative Techniques
<ul style="list-style-type: none"> ITI Limited 	<ul style="list-style-type: none"> - Maintenance Management
<ul style="list-style-type: none"> Indian Institution of Plant Engineers (IPE) 	<ul style="list-style-type: none"> - Improving Maintenance Cost-effectiveness
<ul style="list-style-type: none"> Indian Metals & Ferro Alloys Ltd. 	<ul style="list-style-type: none"> - Maintenance Planning, Scheduling and Control - Machine Reliability and Maintainability Improvement - Total Productive Maintenance
<ul style="list-style-type: none"> Indian Oil Corporation Ltd. (Mathura Refinery) 	<ul style="list-style-type: none"> - Maintenance Problem-solving Through Creative Techniques
<ul style="list-style-type: none"> Indo Gulf Fertilisers (A Unit of Aditya Birla Nuvo Limited) (Formerly Indo Gulf Corporation Ltd.) 	<ul style="list-style-type: none"> - Maintenance Management
<ul style="list-style-type: none"> International Paper APPM Ltd. (Formerly A.P. Paper Mills Ltd.) 	<ul style="list-style-type: none"> - Machine Reliability and Maintainability Improvement
<ul style="list-style-type: none"> JCB India Limited (Formerly Escorts JCB Ltd.) 	<ul style="list-style-type: none"> - Total Productive Maintenance
<ul style="list-style-type: none"> JCT Electronics Ltd. (CPT Plant) 	<ul style="list-style-type: none"> - Maintenance Management
<ul style="list-style-type: none"> JK Tyre & Industries Ltd. (Formerly JK Industries Ltd.) 	<ul style="list-style-type: none"> - Productive Maintenance
<ul style="list-style-type: none"> JK Sugar Ltd. 	<ul style="list-style-type: none"> - Total Productive Maintenance
<ul style="list-style-type: none"> JK Synthetics Ltd. 	<ul style="list-style-type: none"> - Machine Failure Analysis and Control
<ul style="list-style-type: none"> K.M. Sugar Mills Ltd. 	<ul style="list-style-type: none"> - Productive Maintenance
<ul style="list-style-type: none"> K.S. Oils Ltd. 	<ul style="list-style-type: none"> - Maintenance Cost Reduction and Root Cause Machine Failure Analysis
<ul style="list-style-type: none"> Kalyani Steels Limited 	<ul style="list-style-type: none"> - Total Productive Maintenance
<ul style="list-style-type: none"> Keihin FIE Private Limited 	<ul style="list-style-type: none"> - Improving Maintenance Cost-effectiveness
<ul style="list-style-type: none"> Kesar Enterprises Ltd. 	<ul style="list-style-type: none"> - Preventive and Predictive Maintenance
<ul style="list-style-type: none"> Kirloskar Oil Engines Ltd. 	<ul style="list-style-type: none"> - Total Productive Maintenance
<ul style="list-style-type: none"> Kotla Hydro Power Ltd. 	<ul style="list-style-type: none"> - Safety Awareness
<ul style="list-style-type: none"> Madura Coats Limited 	<ul style="list-style-type: none"> - Total Productive Maintenance

(Global Thread Supply India)	
• Maharashtra Seamless Ltd.	- Maintenance Management
• Mangalore Chemicals & Fertilizers Limited	- Machine Failure Analysis and Reliability & Maintainability Improvement
• Manglam Timber Products Ltd.	- Planned Maintenance Systems and Procedures
• Moser Baer Limited	- Condition-based Maintenance
• Motherson Sumi Systems Ltd.	- Machine Reliability and Maintainability Improvement
• Mumbai Port Trust	- Maintenance Management - I - Maintenance Management - II - Maintenance Management - III - Maintenance Management - IV
• NTPC Limited (Rihand Super Thermal Power Project)	- Maintenance Management
• National Aluminium Company Ltd.	- Quiz Programme on Maintenance Management - I - Quiz Programme on Maintenance Management - II
• National Fertilizers Limited (Panipat Unit)	- Maintenance Productivity Improvement and Maintenance Cost Control - Total Productive Maintenance - Maintenance Workers Development Programme (For Maintenance Technicians in Hindi)
• Nepa Limited	- Maintenance Management - Maintenance Workers Development Programme (For Maintenance Technicians in Hindi)
• Nestle India Ltd. (Pantnagar Factory)	- Operators Development Programme for Effective Maintenance (For Plant Operators in Hindi)
• New Shorrock Mills (Prop.: Mafatlal Industries Ltd.)	- Maintenance Management
• Nuclear Power Corporation of India Ltd. (Madras Atomic Power Station)	- Maintenance Management
• Oil India Limited	- Effective Spare Parts Management
• Orient Paper Mills (Prop.: Orient Paper & Industries Ltd.)	- Productive Maintenance - Stores Management - Maintenance Problem-solving Through Creative Techniques - Creative Thinking for Innovation and Problem-solving
• Oriental Carbon & Chemicals Ltd.	- Systematic Breakdown Analysis and Downtime Reduction - Planned Preventive and Predictive Maintenance Systems and Practices - Machine Failure Concepts and FMEA
• Orissa Sponge Iron & Steel Ltd.	- Maintenance Management

(Formerly Orissa Sponge Iron Ltd.)	
• PSL Limited	- Preventive and Predictive Maintenance
• Paradeep Phosphates Ltd.	- Maintenance for Zero Breakdowns
• Parle Biscuits Pvt. Ltd. (Neemrana Plant)	- Development Programme for Maintenance Workers (<i>For Maintenance Technicians in Hindi</i>)
• Permali Wallace Pvt. Ltd.	- Operators Development Programme for Effective Maintenance (<i>For Plant Operators in Hindi</i>)
• Poly Medicure Limited	- Maintenance Management - Total Productive Maintenance - Creativity and Brainstorming - Machine Failure Analysis and Machine Reliability & Maintainability Improvement - TPM Implementation
• Prakash Industries Limited	- Maintenance Management
• Punjab Hydro Power Ltd.	- Safety Awareness
• Rail Wheel Factory (Ministry of Railways)	- Reliability-centred Maintenance - Planned Maintenance Systems and Practices - Plant Downtime Reduction - Maintenance Planning, Scheduling and Control - Spare Parts Management - Maintenance Time Wastage Analysis - Measurement of Maintenance Performance
• Rajashree Polyfil (A Divn. of Century Enka Ltd.)	- Maintenance Management
• Ranbaxy Laboratories Ltd.	- Total Productive Maintenance
• SNL Bearings Ltd. (Formerly Shriram Bearings Ltd.)	- Maintenance Problem-solving Through Creative Techniques
• SRF Limited (Chemicals Business)	- Maintenance Management – I - Maintenance Management - II
• SRF Limited (Packaging Films Business)	- Maintenance for Zero Breakdowns
• SRF Management Development Centre	- Breakdown Analysis
• Samtel (India) Limited	- Maintenance Management - Planned Maintenance Systems and Procedures
• Saraswati Sugar Mills, The	- Maintenance Management - Preventive Maintenance and Planned Maintenance Systems and Procedures
• Sesa Goa Limited	- Maintenance Management
• Shree Cement Limited (Beawar & Ras Units)	- Maintenance Engineers Development Programme - I&II - Maintenance Workers Development

	<p>Programme - I&II (<i>For Maintenance Technicians in Hindi</i>)</p> <ul style="list-style-type: none"> - Creativity and Problem-solving Management - I&II - Reliability-centred Maintenance
<ul style="list-style-type: none"> • SIEL Food & Fertilizer Industries (A Divn. of SIEL Ltd.) 	- Maintenance Management
<ul style="list-style-type: none"> • Star Paper Mills Ltd. 	- Planned Maintenance Systems and Procedures
<ul style="list-style-type: none"> • Sterlite Industries (India) Ltd. (Copper Division) (Vedanta Group) 	- Maintenance Management
<ul style="list-style-type: none"> • Sterlite Technologies Limited (Formerly Sterlite Industries (India) Ltd., Telecom Unit) 	- Maintenance Management
<ul style="list-style-type: none"> • Sterlite Technologies Limited (Power Transmission Business) 	<ul style="list-style-type: none"> - Maintenance for Zero Breakdowns – I - Maintenance for Zero Breakdowns – II
<ul style="list-style-type: none"> • Syngenta India Ltd. (Crop Protection Division) 	<ul style="list-style-type: none"> - Effective Preventive Maintenance and Tracking PM Benefits - Maintenance Staff Development Programme (<i>For Maintenance Technicians in English</i>)
<ul style="list-style-type: none"> • Tata Chemicals Ltd. 	- Maintenance Workers Development Programme (<i>For Maintenance Technicians in Hindi</i>)
<ul style="list-style-type: none"> • U. P. Twiga Fiberglass Ltd. 	- Total Productive Maintenance
<ul style="list-style-type: none"> • Vardhman Acrylics Limited 	- Maintenance Management
<ul style="list-style-type: none"> • Vardhman Special Steels 	<ul style="list-style-type: none"> - Maintenance Workers Development Programme (<i>For Maintenance Technicians in Hindi</i>) - Maintenance Management
<ul style="list-style-type: none"> • Vardhman Spinning and General Mills Ltd. 	- Maintenance Management
<ul style="list-style-type: none"> • Vindhya Telelinks Limited 	- Total Productive Maintenance
<ul style="list-style-type: none"> • Yash Papers Limited 	- Maintenance Workers Development Programme (<i>For Maintenance Technicians in Hindi</i>)