



Technical Troubleshooting -&-Decision Making Value of Machine Troubleshooting

December 1-2, 2025 | 9 AM - 5 PM | Training Room 1, FMM Eastern

Introduction

The quality of your result is based on the quality of your decisions. In a failure analysis, we are very much concerned about the reliability of various functioning components in the systems, the system safety associated with production and ability of the system to function as planned.

Your best decisions are built on a sharp and focused ability to analyse situations, people and probabilities. Trouble-shooters are highly skilled workers but are becoming an increasingly rare breed in the workforce. Attending training courses are to possess valuable knowledge set, while the real troubleshooting skills are learned on the job over a long period of time from experienced maintenance personnel.

Objectives

- Understand concept of problem solving and decision making
- Understand how to define, and analyse problem
- Describe what makes an effective troubleshooting
- Collect evidence to review the fault symptoms
- Develop their ability to think "outside the box"
- Isolate the faulty component/system
- Understand how to make decision rationally
- Close out the problem effectively
- Review your performance go for continuous improvement

Who Should Attend?

- Managers
- Equipment Engineers
- Supervisors
- Maintenance Technicians





Course Outline



8.45 AM

Registration of Participants

9.00 AM

Module 1: Introduction to define & understand Problem Solving

- What is a problem?
- Be creative about your problem definition
- Turn problems into opportunities
- Steps in defining problem solving
- Are all "Decisions" really a "decision"?
- Do we "need" to solve problem?
- What is Decision Making
- How to problem differs from decision
- Team Exercise: Problem Solving in action

10.30 AM

Morning Tea Break

10.45 AM

Module 2: Failure Classification

- Identification of failures
- Sporadic failures
- Chronic failures

- Understanding the critical 6 losses
- P-F Curves
- Team Exercise: Prioritizing failures using P-F
 Curves

1.00 PM

Lunch

2.00 PM

Module 3: Creative Tool Kits & Techniques for Problem Solving

- Thinking out of the box
- Five why technique
- Fish bone diagram / Ishikawa / cause and effect

3.30 PM

Evening Tea Break

3.45 PM

Continue Module 3:

- The root cause analysis
 - Pareto Technique
 - Creative thinking
- Team exercise: Creating fish bone diagram/ ishikawa/ cause and effect diagram



End of Program Day 1









Course Outline





8.45 AM

Registration of Participants

9.00 AM

Module 4: Perform Root Cause Analysis

- Step 1: Observe or collect the relevant data
 - Data Gathering
 - Fact finding
- Step 2: Analyze the data and look for relationship
 - Data analysis
 - Historical analysis
 - Think outside the box

10.30 AM

Morning Tea Break

10.45 AM

Continue Module 4:

- Step 3: Identify possible causal factors
 - o 5 whys Ask "why"?
- Step 4: Identify the root cause
- Step 5: Recommend and Implement solution

1.00 PM

Lunch

2.00 PM

Module 5: Review your decision and its consequences

- Maintenance " a reliability function"
- Importance of good decision making
 - o 6 key points for effective decision making

3.30 PM

Evening Tea Break

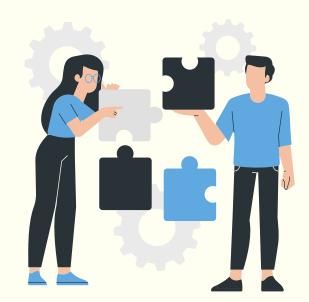
3.45 PM

Continue Module 5:

- Maintenance Strategies
 - Preventive maintenance
 - Predictive Maintenance
- Diagnostic Tools
 - Vibration
 - Thermography
- Developing SMART objectives



End of Program Day 2









TECHNICAL TROUBLESHOOTING & DECISION MAKING VALUE OF MACHINE TROUBLESHOOTING

DEC 1-2, 2025 | 9:00AM - 5:00PM | TRAINING ROOM 1, FMM EASTERN

· · ADMINISTRATIVE DETAILS ...

HRD CORP CLAIMABLE COURSE DETAILS

- Training Provider: FMM Institute Eastern
- MyCoID: 475427W_EASTERN
- HRD Corp Programme No: Provided upon registration

DISCLAIMER

The FMM Institute reserves the right to change the facilitator, date and to vary / cancel the course should unavoidable circumstances arise. All efforts will be taken to inform participants of the changes,

REGISTRATION

- Upon Faxing/Mailing the completed Registration Form to FMM Institute, you are deemed to have read and accepted the terms and conditions. The course would also be deemed as confirmed unless informed otherwise.
- Will be based on First-Come-First served basis.

PAYMENT

- **Cheques** made in favour of **"FMM Institute"** should be forwarded to FMM Institute Eastern.
- For HRD Corp claimable course, an attendance of 100% is a must, in any case, employers will be billed in full.

Please tick accordingly:					
Fees:	FMM Member: RM 972.00/pax (inclusive of 8% Service Tax)				
	Non Member: RM 1,080.00/pax (inclusive of 8% Service Tax)				

Fees include course materials and

Certificate of Attendance

CANCELLATION

- Must be writing with reasons.
- 7 days before the course No payment charged.
- 3-6 days before the course 50% payment charged.
- < 3 days before the course Full payment charged.</p>
- Participants who did not turn-up will be charged full payment.
- Replacements can be accepted at no additional cost.

ENQUIRIES & REGISTRATION

Ms Wan Hui/ Ms Elly

Email: wanhui@fmm.org.my/norelysya@fmm.org.my

Tel: 09-560 6554/ 5244

REGISTRATION FORM

Closing Date **Nov 20, 2025**

Dear Sir / Madam, please register the following participant(s) for the above programme.

No	Name	Designation	I/C Number	Email	H/P No.		
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