



# MAIRODI MANDIRI SEJAHTERA

TRAINING, CONSULTING & ENGINEERING SERVICES

Alamat: Gedung Dapenpos Lt.2, Jl. PH.H. Mustofa No.35 , Bandung, Indonesia, 40124  
Telp/Fax: +62-22-7215668, Homepage : pelatihan-indonesia.id

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Training Syllabus:

## **ROOT CAUSE FAILURE ANALYSIS (RCFA)**

### **TRAINING INTRODUCTION:**

Reliability engineering and predictive maintenance have two major objectives: preventing catastrophic failure of critical plant production systems and avoiding deviations from acceptable performance levels that result in personal injury, environmental impact, capacity loss, or poor product quality. Unfortunately, these events will occur no matter how effective the reliability program. Therefore, a viable program must include a process for fully understanding and correcting the root causes that lead to events having an impact on plant performance. The course gives a logical approach to problem solution. The method can be used to accurately define deviations from acceptable performance levels, isolate the root causes of equipment failures, develop cost-effective corrective actions that prevent recurrence. This set is a practical, step-by-step guide for evaluating most recurring and serious incidents that may occur in a plant. The purpose of RCFA & FMEA is to resolve problems that affect plant performance. It should be an attempt to fix blame for the incident. The use of RCFA & FMEA should be carefully scrutinized before undertaking a full investigation because of the high cost associated with performing such an in depth analysis.

### **TRAINING MATERIAL OUTLINE :**

1. General analysis techniques: FMEA, FTA, CEA, SEA
2. Root cause failures analysis (RCFA) methodology
3. Safety related Issues
4. Regulatory compliance issues
5. Process performance
6. Equipment design evaluation guide
7. Equipment troubleshooting guide
8. Equipments: Pump, Fans, Conveyors, compressors, mixer and agitators, dust collector, process rolls, gearboxes, steam traps, inverter, control valves, seals and packing
9. Six Thinking Hats Approach
10. RCFA Practical
11. RCFA Class Simulation

### **CLASSROOM/DEMONSTRATION/LABORATORY EXERCISE:**

- a. Study Case
- b. Simulation

**INSTRUCTOR :** Ir. Endra Joelianto, Ph.D. and team



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**VENUE :** Kagum Group Hotel Bandung (Golden Flower, Banana Inn, Serela, Gino Feruci), Amaroossa Hotel, Noor Hotel, Grand Setiabudi Hotel, dll

**TRAINING DURATION :** 4 days

## TRAINING TIME :

Januari 2024	Februari 2024	Maret 2024	April 2024
2 - 5 Januari 2024	5 - 8 Februari 2024	4 - 7 Maret 2024	1 - 4 April 2024
8 - 11 Januari 2024	12 - 15 Februari 2024	12 - 15 Maret 2024	22 - 25 April 2024
15 - 18 Januari 2024	19 - 22 Februari 2024	18 - 21 Maret 2024	29 April – 2 Mei 2024
22 - 25 Januari 2024	26 - 29 Februari 2024	25 - 28 Maret 2024	
29 Jan – 1 Feb 2024			
Mei 2024	Juni 2024	Juli 2024	Agustus 2024
6 - 9 Mei 2024	3 - 6 Juni 2024	1 - 4 Juli 2024	5 - 8 Agustus 2024
13 - 16 Mei 2024	10 - 13 Juni 2024	8 - 11 Juli 2024	12 - 15 Agustus 2024
20 - 23 Mei 2024	19 - 22 Juni 2024	15 - 18 Juli 2024	19 - 22 Agustus 2024
27 - 30 Mei 2024	24 - 27 Juni 2024	22 - 25 Juli 2024	26 - 29 Agustus 2024
		29 Juli – 1 Agus 2024	
September 2024	Oktober 2024	November 2024	Desember 2024
2 - 5 September 2024	1 - 4 Oktober 2024	4 - 7 November 2024	2 - 5 Desember 2024
9 - 12 September 2024	7 - 10 Oktober 2024	11 - 14 November 2024	9 - 12 Desember 2024
16 - 19 September 2024	14 - 17 Oktober 2024	18 - 21 November 2024	16 - 19 Desember 2024
23 - 26 September 2024	21 - 24 Oktober 2024	25 - 28 November 2024	
	28 - 31 Oktober 2024		

## INVESTMENT PRICE/PERSON :

1. Rp 8.750.000/person (full fare) or
2. Rp 8.500.000/person (early bird, payment 1 week before training) or
3. Rp 8.250.000/person (if there are 3 or more participants from the same company)

## FACILITIES FOR PARTICIPANTS :

1. Training Module
2. Flashdisk contain training material
3. Certificate
4. NoteBook and Ballpoint
5. T-Shirt



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6. Backpack
7. Training Foto
8. Training room with full ac facilities and multimedia
9. Lunch and twice coffee break everyday of training
10. Qualified Instructor