

Center for Reliability and Diagnostics

PE first **PLE** in our strive for Excellence

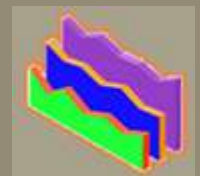
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TRAINING PROGRAMS

2025

Reliable Plant
IS
SAFE
LOW-RISK
PRODUCTIVE
STREAM-LINED
ENERGY-EFFICIENT
KNOWLEDGE-BASED



Manage Knowledge Manage Assets Manage Business



CRD Institute of Excellence

World-Class Programs

On-Line / On-Site / Short-term & Long-term

Sl. No.	Course/ Training Title	# Days	Target Participants	# Participants
RELIABILITY, MAINTENANCE, OPERATIONAL EXCELLENCE				
1	Maintenance best practices for process industry (Orientation Program)	2	GET, PGET, Junior engineers/ freshers (All branches/ functions)	30-40
2	Bridge Program for Fresh Engineers (for enhancing Employability. It covers all aspects of immediate industry needs)	2	GETs, PGETs, Final Year Students	30-40
3	Plant Integrity & Reliability Management	3	All branches/ functions (Sr Engineers/Managers to GM)	20
4	Reliability Centered Maintenance - RCM (process/ power plants)	2 or 3	All branches/ functions	20
5	Reliability & Maintenance best practices for process industry (focusing Industry 4.0 needs)	2	Project, Operation, Maintenance in Mech./ Elect., Rotary, Reliability Engineers	20
6	Asset Predictive Analytics and ML and AI	1	All branches/ functions	20
7	Online Surveillance System for Turbines and Compressors – Maintenance and Diagnostics	2	Rotary, Reliability, Condition Monitoring and Instruments & Electrical Maintenance Engineers	15
8	Maintenance Capability building for Power/ Process Engineers	2	Operation and Maintenance Sr Executives	20
9	Reliability, Risk and Life Assessment	2	Reliability, Maintenance & Operation engineers	15
10	FMECA (Failure Mode, Effect and Criticality Analysis)	2	All branches/ functions	20
11	Diagnostics and Inspection in Supply Chain of Materials	2	All branches/ functions	15
12	Manufacturing Excellence/ Operational Excellence with Cost-Benefit Analysis	2	Business Excellence group. Advisory group in Plant Reliability and Availability	15
13	Root Cause Analysis (RCA / RCFA)	2	All branches/ functions (especially Mech./ Elect./Inst.)	20
14	Energy Saving Opportunity in Reliability and Maintenance Tasks	1	Energy engineers and Mech./ Elect./ Operation engineers)	25
15	RCM and RBI in Asset Maintenance Strategy Development	3	Mech./ Elect./ Inst./ Rotary, Structural, Reliability and Condition Monitoring Engineers	20



Asset Excellence Through People Excellence



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PREDICTIVE TECHNOLOGIES & CORRECTIVE MAINTENANCE				
20	Condition Monitoring/ CBM/ Pd.M. (covering all latest Techniques)	2 or 3	All branches/ functions	20
21	Vibration Analysis of Rotating Machinery (Focus on Enhancing Diagnostics Skills in Industry 4.0)	2 or 3	Mech./ Elect./ Inst./ Rotary, Structural, Reliability and Condition Monitoring Engineers	20
22	Dynamics and Troubleshooting of Turbo Machines (exclusive program for STG, GTG, Compressors)	2	Operation and Maintenance in Mech./ Elect., Rotary, Reliability Engineers	15
23	Structural Health Monitoring & Assessment of Pipelines (Focus on Enhancing Diagnostics Skills including Vibration Analysis of structure)	2	Mech./ Elect./ Inst./ Rotary, Structural, Reliability and Condition Monitoring Engineers	20
24	Noise & Vibration Analysis Fundamentals	1	All branches/ functions	
25	Thermal Imaging – multidisciplinary cost saving tool for process assets	2	Mech./ Elect./ Inst./ Rotary, Structural, Reliability and Condition Monitoring Engineers	20
26	Industrial Tribology (incl. Lubricants and Lubricant Analysis)	2 or 3	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers	20
27	Spare Management and Reclamation techniques for cost reduction	2	Maintenance in Mech./ Elect., Rotary, Reliability Engineers	20
28	Dynamic Balancing Principles & In-situ and Shop Balancing of rotors	2	Maintenance in Mech./ Elect., Rotary, Reliability Engineers	15
29	Acceptance Testing of Rotors in workshop and in commissioning	2	Maintenance in Mech./ Elect., Rotary, Reliability Engineers	15
30	On-line and Off-line Vibration Monitoring – Systems, Instrumentation, Diagnostics and Software	2	Project, Operation, Maintenance in Mech./ Elect., Rotary, Reliability Engineers	20
31	CBM/PdM - Effective System Development (plant wide, multi-OEMs product scenario)	1	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers	25
32	Laser Alignment - Principles and Techniques with Vibration Response study	2	Maintenance in Mech./ Elect., Rotary, Reliability Engineers	20
33	Dynamics and Troubleshooting of Turbo Machines (exclusive program for STG, GTG, Compressors)	2	Operation and Maintenance in Mech./ Elect., Rotary, Reliability Engineers	15



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COMPONENT AND TRADE-SPECIFIC TRAININGS				
34	Bearings - Types, Construction, Applications, Trouble shooting and Maintenance	2	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers	20
35	Industrial Hydraulics (Basics)	2	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers	20
36	Industrial Hydraulics (Advance)	1	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers (who attended Basic program)	20
37	Pumps - Operation, Maintenance and Troubleshooting	2	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers	25
38	Compressors - Operation, Maintenance and Troubleshooting	2	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers	25
39	Pumps & Compressors - Operation, Maintenance and Troubleshooting	3	Maintenance in Mech./ Elect., Rotary, Reliability and Condition Monitoring Engineers	20
40	Performance Analysis of Process Compressors (with minimum half-day simulation study)	2	Maintenance, Engineering, Operation engineers (any branch)	20
41	Performance Analysis of Fans/ Blowers (with cases)	2	Maintenance, Engineering, Operation engineers (any branch)	20
42	CFD and FEA study of Process Equipment / Performance Evaluation (hot or cold environment)	2	Maintenance, Engineering, Operation engineers (any branch)	15
43	Refractory & Insulation in Steel Plants (Types, Materials, Application and Trouble shooting)	2	Maintenance in Mech./ Elect./ Refractory, Rotary, Reliability and CBM and NDT Engineers	15
44	Motors - Operation and Maintenance, Motor Diagnostics	2	Maintenance in Mech./ Elect./ Refractory, Rotary, Reliability and CBM and NDT Engineers	20
45	Lifting Tools and Tackles - Applications, Safety, Testing and Preservation	2	Maintenance in Mech./ Elect./ Refractory, Rotary, Reliability and CBM and NDT Engineers	20
46	Power Transmission - Gearbox - Types, Construction, Selection, Maintenance and Diagnostics	1 or 2	Maintenance in Mech./ Elect./ Refractory, Rotary, Reliability and CBM and NDT Engineers	20
47	Ultrasonic Testing - Principle, applications, instrumentation	1 or 2	Maintenance in Mech./ Elect./ Refractory, Rotary, Reliability and CBM and NDT Engineers	15
48	Shot blasting M/c's maintenance (also on site maintenance training along with consulting)	1	Maintenance in Mech./ Elect./ Refractory, Rotary, Reliability and CBM and NDT Engineers	15



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Center for Reliability and Diagnostics

PEOPLE first in our strive for Excellence

Who we are

M/S Center for Reliability and Diagnostics (CRD) is a registered firm, based in the commercial capital of India, Mumbai, dedicated to management of critical assets by providing specialized plant reliability & maintenance knowledge and related services. CRD attempts to bridge the knowledge gaps between industry & academia on multiple disciplines, namely mechanical, electrical, chemical, structural, instrumentation and control, and information technology etc. keeping pace with the needs of Industry 4.0

Our approach is **PEOPLE-FIRST** that is to **empower the people** with the right knowledge on equipment, reliability, maintenance and diagnostics technologies.

Company We Served



Reach us



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