

Industry Experts

Condition Monitoring Solutions

Engineering Graduates

This program helps you to understand the importance of enhancing machine reliability and techniques used in most of the plants to achieve the same. This program also deals with basic understanding of different techniques used in condition monitoring.



www.precise-reliability.com



Aboutus:

Precise reliability solutions is a startup with the ambition to become the leading service provider of CBM services to the all type of industries.

PRS offer reliability excellence by continuously adopting to new technologies in the field and provide solutions.

To be a trusted partner in providing quality machinery diagnostic services to every customer and contribute to enhance their knowledge with latest technologies and achieve safe, healthy, Keep trouble free, and environmental friendly machinery and provide a world class quality consultancy service to every customer.

PRS is also providing Skill development program in reliability maintenance along with ISO LEVEL-1&LEVEL-II certified programs.

Our Vision & Mission:

To become a trusted partner in providing quality machinery diagnostic services to every customer by continuous improvement and exceeding the customer expectations made possible with latest technologies that offer safe, healthy, trouble-free, environmentally friendly and world-class consultancy services.

As reliability engineering is relatively new to Indian industries, there is a serious lack of skilled people. Our mission is to improve the skill-set of the students and provide industries with skilled people. We guide students to become experts in both data collection and to develop analytical skills to become a reliability engineer.

CLIENTS & TECHNOLOGY PARTNERS

























INDUSTRY WE SERVE









Pharmaceuticals









Pulp & Paper







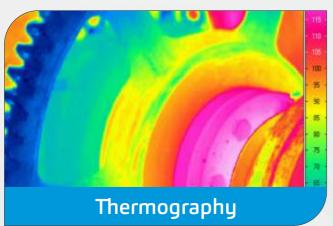






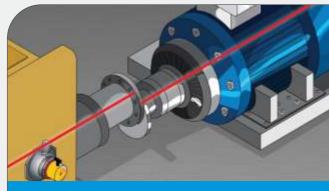
Our Scope











Laser Alignment









Importance of Reliability in Maintenance

The general philosophy of a condition monitoring system is to know the behavior of the equipment and perform maintenance on equipment only when required, without sacrificing machine reliability.

Condition monitoring system does not predict the exact time that equipment will fail. Even if it could, this information would be of little help, since in case of important equipment's like turbine, transformers; entire generating unit would have to be shut down to perform the required maintenance.

There are different CBM techniques available to analyze machine properly.

Some of the techniques that will be discussed are as follows

- Vibration Analysis
- In-Situ Dynamic Balancing
- Laser Alignment (Shaft/Pulley)
- Electrical Thermography
- Mechanical Thermography
- Lube Oil analysis
- Remote Vibration Data Analysis
- IIOT



Seven days training program including theoretical concepts of reliability techniques and hands on experience of instruments.



Hands on experience of instruments include data collection of vibration and Thermography and alignment.



Brief discussion of latest advanced technologies in reliability maintenance.



Importance of improving machine reliability across different industries.



Discussion with industry leaders in reliability maintenance and prospect of carrier advance.

PROGRAM CONTENTS

Maintenance Strategies	
Importance of maintenance	
Introduction to maintenance stratagies	SESSION-
Benifits of RCM	
Condition Monitoring Techniques	
Introduction to CBM techniques	
Over View	
Vibration Analysis	SESSION-
Thermography	3E33IOIN-
Oil Analysis	
Wear Particle Analysis	
Vibration Analysis	
Basic Principles (Frequency & Amplitude)	
Data Collection	
Introduction to Phase	SESSION-
Introduction to Time Waveform	
Introduction to Spectrum & Fault Diagnosis (Basic)	
Data Acquisition	
Types of sensors	
Basic differences between shaft vibrations and casing vibrations	05001011
Types of Sensor Mounting and its importance	SESSION-
Uses of Low sensitive and High sensitive accelerometers	
Reliability Improvement	
Importance of Dynamic Balancing	
Importance of Alignment	SESSION-
Importance of Precision Lubrication and frequent analysis	
Case Studies	
Unbalance	
Misalignment	
Mechanical Looseness	
Bearing Problems	SESSION-
Common Electric Problems	
Common Gear Box & Belt faults	
Common Pump, Blowers & Compressor Problems	
Practical and hands on experience	
Vibration Analyzer	
Thermal Imager	SESSION-
Laser Alignment	

PROGRAM SNAPSHOT & BENEFITS



Will help you under stand the importance of maintenance in a better way.



Transform yourself from a passout student to a reliability engineer.



Make yourself standout in the group with better understanding of reliability and how you can help improve plant maintenance.



Will help you in enhancing your job profile, as more industries are looking for people with advanced maintenance skills.



Increase in job opportunities as most industries are employing reliability engineers.



Hands on experience of different instruments will help you quick start in you job role.



Provides hands-on training to the participants on basics of Plant Maintenance, Strategy, Reliability Engineering, Planning, Scheduling, Project Management, RCM, PdM Technologies such as Vibration Analysis, Balancing, Laser Alignment, IR-Thermography, Ultrasonic, Oil Analysis, MCSA, NDT Techniques to identify, manage and eliminate plant failures.

COURSE CO-ORDINATOR



Mahesh Kumar

Completed engineering through MRGI, HYDERABAD, TELANGANA. Has 12+ years of experience in reliability maintenance (Vibration analysis, thermograph, oil analysis) and has experience in working various industries. Some of therm including Power plant, Smelter. Worked in KCM-Zambia in Copper smelting unit. Certified vibration Level-II analyst and participated in essential of machinery lubrications.

Program Details

Duration	7 Days
Eligibility	Diploma / B.E. / B.Tech in Mechanical Diploma / B.E. / B.Tech in Electrical
Batch Size	10 Numbers
Location	Hyderabad, India
For Registration	www.precise-reliability.com

After successful completion of training program candidates will join as a CM Engineer.



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Selection Registration Personal Course Commence

Shortlist

Verification & Medical Fitness

CM Engineer