5-Day Training Course on
Vibration Analysis Level-II (VCAT-II)
February 17-21, 2025

Centre for Vibration Analysis & Condition Monitoring (CVCM) is the Center of Excellence of Pakistan Atomic Energy Commission (PAEC) which aims to provide machine condition monitoring services and holding regular training in core area of Machine Condition Monitoring (MCM) for Researchers, Engineers, Students and Technical personals of Process Industries in Pakistan.

INTRODUCTION

This Vibration Analysis Level-II (VA-II) course provides unique opportunities to study vibration analysis principles' in a way that goes beyond the textbook and provides real-world applications. In addition to understanding theories and techniques, the training course provides procedures to add to your practical knowledge of machines. As a vibration analyst you are expected to know how to test machines correctly, to diagnose faults accurately (and perform additional tests to verify your diagnosis), to set vibration alarm limits, and how to correct certain types of faults. We are offering you the opportunity to truly understand the analyzer and machine so that you feel confident in the decisions you make. If you have any of the following machines, this training is for you.

- ***Gear Boxes***
- ***Hydraulic Systems***
- ***Electric Motor***
- ***Compressors***
- ***Pulley Drives***
- ***Diesel Engines***
- ***Process Pumps***
- ***Steam Turbines***
- ***Blowers/Fans***
- ***Roller Bearings***
- ***Belts & Pulley***

LEARNING OUTCOMES

- *Vibration data collection*
- *Instrumentation*
- *Pre-assigned routes*
- *Vibration measurements*
- *Correct data collection*
- *Results evaluation*
- *Reporting results*
- *Assessment criteria.*
- *Signal recognition*
- *Vibration alert settings*

TOPICS

The course gives comprehensive and detailed coverage on the principles and applications of vibration analysis and its role in investigating machinery defects and their associated time waveforms & spectra. Some aspects of signal processing and data collection are also covered. Case histories are considered in a participative manner.

- Review of maintenance practices
- Condition monitoring technologies
- Principles of vibration
- Data acquisition
- Signal processing
- Fault analysis
- Successful condition monitoring
- Acceptance testing
- Review of ISO standards
- Practical Hand's on Training
- Review of the balancing process

REGISTRATION

Reserve your seat through e-mail, fax or on postal address:

Name: ----------
Job Title/Design.: ----------
Office Address: ----------

Cell: ----------
Fax: ----------
CNIC: ----------

For registration

Muhammad Haroon
(Manager, CVCM)
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COURSE FEE

Professionals:
Rs. 40,000/-per participant.
Students:
Rs. 20,000/-per participant.

Course fee includes:
- **Course manual**
- **Executive Bag**
- **Light Refreshments**
- **Daily Lunch**

Preferable mode of payment is through crossed cheque drawn in favor of **Center for Vibration Analysis and Condition Monitoring – Pakistan Atomic Energy Commission.**

IBAN:
PK59ABPA0010002084620114

COURSE ORGANIZER

M. Salman K. Durrani
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COORDINATION

Contact for any query:
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WHO SHOULD ATTEND

- ✓ Vibration Engineers
- ✓ Maint. Professionals
- ✓ Operation Managers
- ✓ Plant Supervisors
- ✓ QA/QC Supervisors
- ✓ HVAC Engineers
- ✓ Plant Technicians
- ✓ Inst. Technicians
- ✓ Plant Operators
- ✓ Industrial Engineers
- ✓ Reliability Engineers

RESOURSE PERSON

Muhammad Haroon
Certified Maintenance and Reliability Professional
SMRP | CMRP
Engine & Compressor Certified Analyst
WINDROCK INSTITUTE (USA)
VIBRATION ANALYST: VCAT-III
MOBIUS INSTITUTE (AUSTRALIA)

Hamid Raza Khan
VIBRATION ANALYST: VCAT-III
MOBIUS INSTITUTE (AUSTRALIA)
MLA-II
ICML (USA)

VENUE

CHASHNUP HOSTEL
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