

# Vibration Analysis Category I

Saturday Oct 17<sup>th</sup> to Tuesday Oct 20<sup>th</sup>, 2026, from 8AM to 5PM

NAIT Productivity & Innovation Centre – Room 232  
(Northern Alberta Institute of Technology)  
11762 - 106 Street, Edmonton, AB, Canada, T5G 2R1



## About the Course

Vibration Analysis Category I provides students with a practical, industry-aligned introduction to machinery condition monitoring. The course builds foundational skills in vibration measurement, sensor selection, and interpreting basic waveforms and spectra to identify early signs of mechanical issues such as imbalance, misalignment, looseness and bearing wear. Students learn how vibration data is collected in industry, how to evaluate data quality, and how measurements are compared to alarm limits within a predictive maintenance program. Training aligns with the knowledge requirements of ISO 18436-2 Category I. Students may choose to complete the CMVA Category I certification exam at the end of the course.

### Course Topics

- Fundamentals of vibration and machine dynamics
- Types of vibration sensors and proper mounting techniques
- How to collect reliable single-channel vibration data
- Waveform and spectrum basics: how to read and interpret them
- Identifying common fault indicators
- Alarm limits and how to compare measurements to baseline values
- Safe data collection practice and instrument handling
- The role of vibration analysis in predictive maintenance programs
- How vibration fits into broader health and reliability strategies

### Meet your instructor



Bernie Pringle graduated in Mechanical Engineering, UBC, 1976 having specialized in acoustics, vibration, and industrial engineering. He has over 50 years of hands-on experience in the field of vibration analysis and balancing, mainly working in western Canada and covering a wide range of industries. Work positions included companies like Cominco Mining and Smelting, Kadon Electro Mechanical, Dynamic Signal Analysis Corporation, and his present company Primac Reliability Consultants Ltd which was started in 1993.

## Need more information?

Call 416 622-1170 option 1  
Email [director@cmva.com](mailto:director@cmva.com)  
Visit [www.cmva.com](http://www.cmva.com)

## Who Should Attend?

- NAIT Industrial Mechanic (Millwright) Apprentices (4<sup>th</sup> year)
- Recent graduates of the NAIT Industrial Mechanic (Millwright) program
- New entrants to the millwright or mechanical trades
- Apprentices or students working in reliability, maintenance, or asset-management departments
- NAIT instructors who teach mechanical, maintenance, or reliability-related subjects and wish to expand their knowledge of vibration analysis

## Fees

This course is being to eligible NAIT students and instructors as part of a collaborative initiative to support skill development in predictive maintenance and reliability.

**NAIT students:** No cost

**NAIT instructors:** \$150

### What's included ?

- Instruction
- Course materials
- CMVA ISO 17024 Vibration Analysis Category I Exam

## To register

1. Send expression of interest to [director@cmva.com](mailto:director@cmva.com)
2. A \$150 deposit will be required to secure spot (refundable to students who complete course)



**Add to your training :**

**Attend the 2026 CMVA Annual Technical Conference**

**The 2026 ATC will take place at NAIT in Edmonton, Alberta October 21-22.**

Expect focused technical sessions, industry speakers, and exhibitors from across the reliability and predictive maintenance field. NAIT students and instructors are invited to submit an abstract to present at our technical sessions and are welcome to attend the tradeshow the afternoon of Oct 22.

## Call for Speakers

Seeking student presenters – prizes will be offered!

Email [director@cmva.com](mailto:director@cmva.com) for info.