

## VIBRATION CERTIFICATION TRAINING



# ***COURSE INFORMATION TRAINING CALENDAR CERTIFICATION DETAILS***



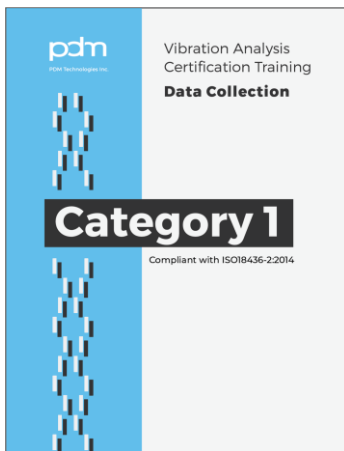
Rev.: Dec 12, 2022



# ISO18436 Category 1 – Data Collection

### COURSE SUMMARY:

The ISO Category 1 training course is an ideal starting point for new vibration analysts, technicians collecting vibration data, and individuals who want a better understanding of vibration analysis and predictive maintenance.



**Duration:** 4.5-day course for a total of 30 hours of training, including review and optional exam.

**Format:** In-person training provided at a public venue or private at client's facility.

**Course Materials:** Printed course manual plus handouts.

**Exam Detail:** CMVA Certification Exam (PC required), 60 questions, 2 hours to complete, requires a 70% grade to pass.

**Certification Prerequisites:** Experience is not required for attending the course however it is recommended to have at least 6 months of field work. This experience is required for *Certification*.

### DETAILED DESCRIPTION:

Category 1 certified individuals are:

- Capable of safely collecting standard route data using a vibration data collector.
- Collect repeatable and reliable single channel vibration measurements.
- Compare measurements against established alarms.
- Identify errors in collected data.
- Transfer the collected data to the vibration data management software.
- Report visual observations on the condition of the equipment as well as safety and environmental concerns for the facility.
- Understand basic principles of mechanical vibration used for monitoring the condition of machinery including:
  - Common units of measure, locations to collect data, and the process variables recorded due to their effect on the vibration measurements.

***For information on public courses, please refer to the 2023 course Calendar on page 4.***

***For information on arranging for a private course, please contact us at***

***[sales@pdmtechinc.com](mailto:sales@pdmtechinc.com)***

# ISO18436 Category 2 – Basic Analysis

### COURSE SUMMARY:

The ISO Category 2 training course is directed to those individuals who have mastered the basics of vibration analysis data collection. This course will build on the principals of Cat 1 teaching how to properly set-up the data collector for effective measurements, how to analyze a wide range of fault conditions, and better understand dynamic balancing, precision alignment, and alternate condition monitoring technologies.



**Duration:** 5-day course for a total of 38 hours of training, including review and optional exam.

**Format:** In-person training provided at a public venue or private at client's facility.

**Course Materials:** Printed course manual plus handouts.

**Exam Detail:** CMVA Certification Exam (PC required), 100 questions, 3 hours to complete, requires a 70% grade to pass.

**Certification Prerequisites:** A minimum of 18 months of relevant work experience is recommended for the course and is required for *Certification*.

### DETAILED DESCRIPTION:

Category 2 certified individuals build on the knowledge and capability of a Category 1 Certified Analyst.

They are able to:

- Define routine data collection activities including acquisition and analysis settings using basic signal analysis.
- Collect extra test points when unusual conditions exist
- Performing single channel impact tests
- Interpreting and evaluating test results in accordance with specifications
- Diagnosing common faults and recommending basic corrective actions.
- Recommend alternate condition monitoring technologies to verify issues raised as a result of routine condition monitoring activities.

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## 2023 COURSE CALENDAR

### Public Courses for 2023

The following information is for public / open registration courses scheduled for 2023. Additional courses may be added. Private courses are also available.

#### Moncton, NB

Category 2 February 6<sup>th</sup> to 10<sup>th</sup>

#### Burlington, ON

Category 1 May 1<sup>st</sup> to May 5<sup>th</sup>  
Category 2 October 16<sup>th</sup> to 20<sup>th</sup>

#### Edmonton, AB

Category 1 September 11<sup>th</sup> to 15<sup>th</sup>  
Category 2 May 22<sup>nd</sup> to 26<sup>th</sup>

#### Vancouver, BC

Category 1 February 20<sup>th</sup> to 24<sup>th</sup>



## HOW TO REGISTER

To register for a training course, please contact us at [sales@pdmtechinc.com](mailto:sales@pdmtechinc.com) or visit our website at [www.pdmtechinc.com/training/](http://www.pdmtechinc.com/training/) and select Book a Consultation or call us at **905-648-5353**.

## ABOUT PDM

PDM is a company dedicated to servicing clients since 1992 in the disciplines of vibration analysis and machinery reliability solutions. Our core personnel have over 50 years' experience in Predictive Technologies and over 50 years in Corrective Services. Our service group consists of a Professional Engineer, Engineering Technologists, and Industrial Millwrights and Mechanics.

PDM's trainers are Certified to Category 3 in Vibration Analysis and hold various additional certifications and qualifications. More importantly, our trainers are hands-on analysts who have many years of experience performing the job.

***PDM Technologies Inc. is an Approved Trainer for the CMVA.***

