

Education

With global industry standards and expectations evolving and increasing at a rapid pace, achieving and maintaining maximum machinery reliability and efficiency grows more important every day. At Pioneer Engineering, we believe that proper employee training can help reduce risk and maximize equipment reliability and efficiency. We pride ourselves on our ability to provide hands-on training where lecture material is directly applied immediately in the field. That is why we have developed courses focused on predictive technologies, plant reliability and precision maintenance. Our predictive technology courses are compliant with ISO 18436 and we offer Vibration Institute ISO certification exams.

2021 Public Live Online Training

Online classes are live with continual interaction between instructor, student and group (not recorded video-based). Classes will be recorded so that students may makeup missed live classes with the recorded version.

PREDICTIVE TECHNOLOGIES	Dates	Day & Time	Cost
Introduction to Applied Vibration Analysis - CAT I	Feb 2 - March 25	Tu & Th, 9-11am	\$1,450
Journal Bearing Analysis	Feb 2 - Feb 25	Tu & Th, 1-3pm	\$750
Plant Reliability	March 2 - April 22	Tu & Th, 1-3pm	\$1600
Intermediate Applied Vibration Analysis - CAT II	March 30 - June 3	Tu & Th, 9-11am	\$1,750
Journal Bearing Analysis	May 25 - June 17	Tu & Th, 9-11am	\$750

2021 Public In-Person Training Schedule

Rocky Mountain Training Center
912 Smithfield Dr., Fort Collins, CO 80524

PREDICTIVE TECHNOLOGIES	Dates	Day & Time	Cost
Introduction to Applied Vibration Analysis - CAT I	March 8-11	Mon-Thurs, 8am-5pm	\$1,450 *Exam \$300
Journal Bearing Analysis	May 4-5	Tue-Wed, 8am-5pm	\$750
Advanced Applied Vibration Analysis - CAT III	May 17-21	Mon-Fri, 8am-5pm	\$1,850 *Exam \$400
Intermediate Applied Vibration Analysis - CAT II	June 14-18	Mon-Fri, 8am-5pm	\$1,750 *Exam \$350

PRECISION MAINTENANCE	Dates	Day & Time	Cost
Alignment	March 1-3	Mon-Wed, 8am-5pm	\$1,050
Dynamic Balancing	May 11-13	Tue-Wed, 8am-5pm	\$1,050

All public training prices include a textbook and lunch while in class. *Optional ISO exams are administered the day following the last day of class.

Dates and pricing are subject to change so please visit [Pioneer-engineering.com/training-schedule-and-pricing](https://pioneer-engineering.com/training-schedule-and-pricing) for the most up-to-date class information. All classes can be tailored to fit your learning style and objectives, and can be added by demand, or at your own facility. Contact us at info@pioneer-engineering.com, or call 970.266.9005 for more information.

Engineering Services

At Pioneer Engineering, we pride ourselves on our ability to provide our clients with personalized services that meet their individual needs, worldwide. We are experts in the fields of reliability and mechanical engineering, identifying opportunities to help improve your equipment's efficiency and life cycle. Our reliability engineering services exceed industry standards, with our reliability experts working with you in facilitating personalized reliability centered maintenance programs and are dedicated to improving overall operational efficiencies.

What sets Pioneer apart is our multi-faceted approach to reliability engineering and vibration analysis. We use multiple disciplines and strategies to identify the best and most cost-effective solutions to your challenges. Pioneer's staff works to find the cause of the problem, not just treat the symptoms.

Conception and Design Services

- Design for Reliability
- Finite Element Analysis (FEA)
- Prototype Dynamic Testing & Analysis
- Reliability Assessment
- Research & Development
- Torsional Analysis

Implementation & Installation Services

- Acceptance and Performance Testing
- Criticality Assessments
- Failure Mode Distribution Analysis
- Maintenance Strategy Optimization
- Reliability Centered Maintenance (RCM) Facilitation
- Reliability Engineering

Technical Field Services

- Acoustical (Pulsation) Analysis
- Dynamic Balancing
- Infrared Imaging
- Modal Testing
- Operating Deflection Shape Analysis (ODS)
- Reciprocating Machine Analysis (Windrock Partner)
- Torsional Testing
- Tribology
- Vibration Condition Monitoring
- Vibration Analysis

Failure Analysis Services

- Failed Bearing Inspection
- Root Cause Failure Analysis

Mentoring

One-on-one mentoring with subject matter experts from Pioneer Engineering fills the gap where other training programs fall short. Experienced Pioneer Engineering staff work with your team in your environment and/or via remote web sessions. The significant benefits of mentoring make it a very cost effective training solution for your personnel.

Benefits of Mentoring with Pioneer Engineering

- On demand expert support from basic to advanced topics
- Customized to individual and company needs
- More effective than large group training
- Often performed at your facility in your environment
- Job tasks are completed while getting trained
- Our staff utilize nearly all major hardware and software platforms for vibration analysis, reciprocating analysis, multi-channel acquisition, and FEA
- An excellent way to learn new skills and gain proficiency
- A combination of onsite and remote mentoring significantly reduces travel expenses without sacrificing training effectiveness
- No minimum for remote mentoring means you can have an expert on call for as little as an hour of time

