

Training Day //

Wed, Sept 23rd 9:30 AM - 4 PM ET



// LOCATION

MidWest office
47909 Halyard Drive
Plymouth, MI 48170

VIBRATION MEASUREMENT

From fundamentals to advanced theory and hands-on exercises

Polytec Training Day in Plymouth is a full day of lecture and hands-on experience designed to deepen your understanding of laser vibrometry and help you get the most out of your measurement systems. Whether you are just getting started or looking to sharpen your skills, this program offers a balanced mix of theory, live demonstrations, and practical exercises. From the fundamentals of vibrometry to tips for setup optimization and post-processing techniques, our experts will walk you through every step. We are excited to have you join us for a day of learning, discovery, and collaboration.

TRAINING CERTIFICATE

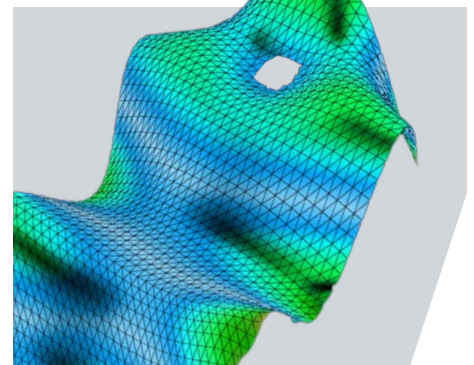
Get your Polytec Scanning Vibrometer (PSV) [training certificate](#).

LATEST DEVELOPMENTS

During the training we will have multiple stations for:

- // [Modal testing with the RoboVib Test Station](#)
- // [VibroScan QTec—Reinventing vibrometry](#)
- // [Production testing with the IVS-500 Vibrometer](#)
- // [VibroFlex QTec—flexibility in optical vibration measurement](#)

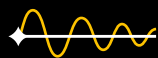
→ Training day is free of charge. Breakfast and lunch will be provided.



[Learn more](#)
[and register](#)

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AGENDA

8:30 AM Continental breakfast (optional to attendees)

9:00 AM The basics of laser Doppler vibrometers (LDV)

- Introduction to LDV
- Basics of vibrations, input, output and transfer function
- Time and frequency domains and DSP
- Excitation methods
- Modal analysis with LDV

10:00 AM The wide world of vibrometer applications

- Challenging environments
- Unique surfaces
- Diverse signals

10:30 AM **COFFEE BREAK**

10:45 AM Polytec scanning vibrometer (PSV) course in frequency and time domain

- Alignments in 2D and 3D
- Scanning mesh and geometry generation
- Acquisition parameters

11:10 AM Case studies:

- Operational deflection shapes (ODS)
- Non-destructive testing (NDT) and wave propagation

Advanced tips for improving measurement experience

11:30 AM

- Setup guidelines
- 3D alignment for stitching
- Geometry import

12:00 PM **LUNCH**

12:45 PM Reviewing and working with data

- Viewing and exporting data
- Post processing with SigPro

1:15 PM Post-processing case study: Using 3D scanning LDV to measure strain

- Measurement principles and setup
- Strain/stress processing

1:45 PM Training stations, hands-on practice

Contact us at **949-943-3033**
or email info@polytec.com.

