



Relevant Training Courses for Structural Test Applications

Research, design, and validation of new structures requires a variety of tests from static load testing to aerodynamic testing as shown in Figure 1. To measure the structural integrity of the test article, you need measurement instrumentation that can read all of your sensors. Oftentimes, tests requiring sample rates over 1 kS/s are considered dynamic tests. National Instruments categorizes tests that require sample rates more than 10 kS/s as dynamic structural tests. This includes aerodynamic, impact, vibration, blast, and ballistics testing.

Depending on your programming environment, your curriculum starts with one of the following:

- LabVIEW Core 1
[View Course Details](#) | [Review Sample Course Material](#) | [Test Your LabVIEW IQ](#)
- LabWindows™/CVI Basics I
[View Course Details](#) | [Review Sample Course Material](#)



LabVIEW users should then progress from LabVIEW Core 1 to:

- Data Acquisition and Signal Conditioning
[View Course Details](#) | [Review Sample Course Material](#)

Building on information taught in LabVIEW Core 1, the Data Acquisition and Signal Conditioning training teaches the fundamentals of PC-based data acquisition and signal conditioning. Students learn how to perform different types of acquisition and to identify the correct sensors for their measurements. Students also install and configure hardware in classroom-based courses.

Additional Training Resources

- Unsure about what you can gain from NI training? [Learn how past NI training customers have benefited.](#)
- [View other LabVIEW training paths.](#)

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