

## Sixclear Lucid LabVIEW Fundamentals One - Course Outline

Lucid Fundamentals One, when delivered live in the classroom, is a three day course. When delivered with Lucid Fundamentals Two, the entire course takes five days. The same curriculum is also available for unlimited access in our online, e-learning course. On-site delivery comes with a hard-copy of the exercise manual for each student. Lucid Fundamentals Two contains DAQ and Instrument Control topics, when the hardware (as opposed to simulation) option is selected, we bring NI USB-DAQ devices, serial RS-232 instruments, and signal boxes.

Each section shown below contains lecture, exercises, and solution videos with code.

A complete topics list can be found in the "[What Topics Are Covered](#)" document.

### Sixclear Lucid LabVIEW Fundamentals One

#### Unit 1: Getting Dirty with LabVIEW

- **Section 1:** What is LabVIEW?
- **Section 2:** Dataflow Programming
- **Section 3:** Programming Structures
- **Section 4:** Basic Data Types
- **Section 5:** Array Processing
- **Section 6:** Formula Nodes

#### Unit 2: Proficient Programming in LabVIEW

- **Section 1:** Modular Programming
- **Section 2:** Powerful Data Types
- **Section 3:** Charting and Graphing Data
- **Section 4:** File I/O and Error Handling
- **Section 5:** Beautiful User Interfaces

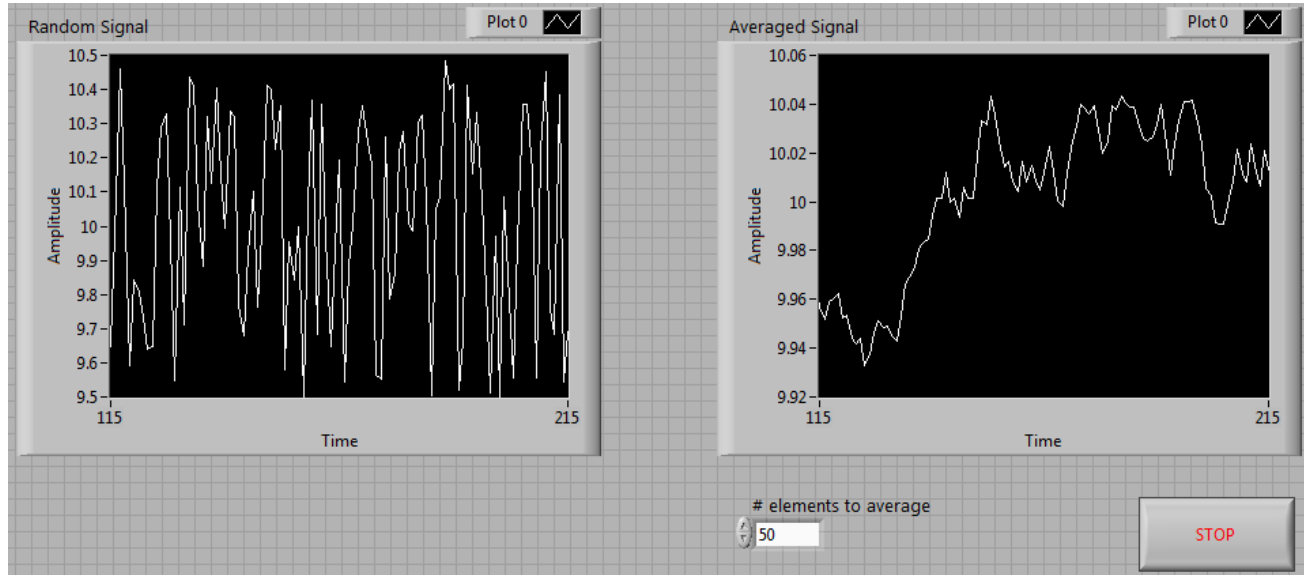
#### Unit 3: Application Programming in LabVIEW

- **Section 1:** Variables in LabVIEW
- **Section 2:** Core Design Patterns

Screenshots on next page / other side

## Sample Exercise VI

### Front Panel



### Block Diagram

