

Certificate in LabVIEW

LabVIEW has grown to become the industry-leading development environment for data acquisition, test, measurement, control, and analysis applications. It is a leading edge tool for scientists and engineers to use for rapid design development and deployment of instrumentation and control systems.

The certificate is an opportunity to develop basic and intermediate LabVIEW skills including the ability to construct moderately complex, modular, well-organized LabVIEW applications. The hands-on exercises build programming skills in areas including data acquisition, instrument control, analysis, archiving, planning and building larger applications as well as Intermediate level issues of memory management, multithreading, and code interface nodes.

The Certificate in LabVIEW consists of two required classes totaling 66 hours of lecture and hands-on laboratory instruction. Students who successfully complete both classes will be award a Certificate in LabVIEW and 6.6 Continuing Education Units (CEUs). Those who pass the elective CLAD certification exam will receive an additional 0.1 CEU and certification from National Instruments (NI).



NEW CLAD CERTIFICATION

University Extended Education is proud to be a National Instruments LabVIEW Academy. Get hands-on training in LabVIEW and prepare for the Certified LabVIEW Associate Developer (CLAD) certification exam. The CLAD is the first step in the three-part NI LabVIEW certification process. This certification indicates a broad working knowledge of the LabVIEW environment, a basic understanding of coding and documentation best practices, and the ability to read and interpret existing code. The optional exam will be offered to those who have successfully completed University Extended Education's Intermediate LabVIEW course.

PROGRAM OBJECTIVES

Upon completion of the certificate program, graduates will:

- Understand fundamental LabVIEW programming structures and concepts
- Understand the concept of Virtual Instrumentation (VI) and its implementation
- Be familiar with basic and intermediate level programming concepts
- Be familiar with sound programming practices
- Be able to apply principles of measurement, control, reporting, analysis, memory management, multithreading and code interface nodes using LabVIEW
- Be confident of their LabVIEW knowledge in order to take the CLAD certification exam

Register today at www.csufextension.org or 657.278.2611

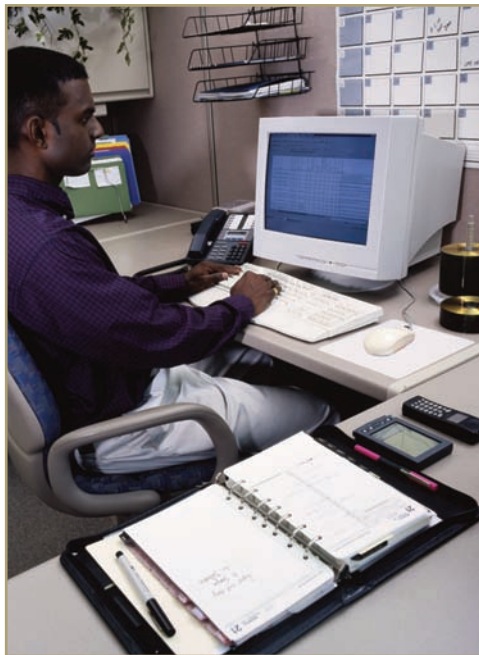
For more information, contact Denelle Pankratz: 657.278.2605, dpankratz@fullerton.edu

WHO SHOULD ATTEND

The Certificate in LabVIEW is designed for engineers, scientists and technicians who build and test applications for measurement, process monitoring and control and/or research and analysis. Also, those who are interested in preparing for the CLAD certification exam.

ELIGIBILITY

Students beginning the Certificate in LabVIEW are expected to have prior experience using Windows Operating System and prior exposure to instrumentation and control hardware or work experience in a technology and/or engineering field.



THE CLASSES

FUNDAMENTALS OF LABVIEW

(3.6 CEUS/36 hours)

Prerequisite: prior experience using Windows Operating System and instrumentation and control hardware. Learn the basics of implementing virtual instrumentation using LabVIEW. Develop test, measurement, data acquisition, instrument control, datalogging, measurement analysis, and report generation applications. Topics include basic LabVIEW programming structures, subroutines, LabVIEW libraries for data acquisition, instrument control, analysis, presentation, and file and network I/O; and planning and implementing modular applications.

INTERMEDIATE LABVIEW

(3 CEUS/30 hours)

Prerequisite: Fundamentals of LabVIEW. This class takes the basic concepts introduced in the fundamentals class and explores them in more detail. You will acquire the essential skills for developing reliable and useful applications through instructor lead discussion and hands-on exercises and projects in Virtual Instrumentation (VI). Topics include managing VI's for your application, file I/O, using clusters, handling errors, state machines and good use of PC memory. You will also acquire the knowledge and skills to prepare for the Certified LabVIEW Associate Developer (CLAD) exam.

Elective

CLAD EXAM

(0.1 CEU/1 hour)

Prerequisite: successful completion of Intermediate LabVIEW. This optional exam will be available to those who have successfully completed the Intermediate LabVIEW class at University Extended Education. Registration with National Instruments at least one week prior to the exam will be required. Immediately upon completion of the computerized exam, you will be notified of your status. Those who have passed the exam will receive the CLAD certification directly from National Instruments.

For more information www.csufextension.org or
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