

# LabVIEW Object Orientated Programming System Design Course

## Overview

In this course you will learn how to create LabVIEW applications using the Object Oriented Programming (OOP) architecture.

You will start by learning the fundamentals of designing an application using an OOP architecture, through to implementing the design in LabVIEW. The course balances theory of OOP design with hands on exercises, which includes design and development a full application.

## Duration

Two (2) Days

## Audience

- Programmers using, LabVIEW who wish to learn how to develop applications using Object Oriented Programming architectures
- Developers who wish to compare reference and data based OOP classes

## Prerequisites

- This is an advanced course and you should have either taken, or have development experience equivalent to LabVIEW Core 3 before attending

## NI Products Used During the Course

- LabVIEW Professional Development System
- Endevo GOOP and UML tools

## After attending this course, you will be able to:

- Develop a LabVIEW application using OOP development tools and architectures
- Understand the use of UML in the design of applications
- Select between reference or data based classes

## Suggested Next Courses

- Advanced Architectures in LabVIEW

## Course Topics

- Object oriented systems development vs. traditional LabVIEW development
- LabVIEW 8 classes, methods and data
- Classes by-value verses by-reference

## Registration

Register online at [ni.com/training](http://ni.com/training) or call (800)433-3488 Fax: (512)683-9300 [info@ni.com](mailto:info@ni.com)

Outside North America, contact your local NI Office.  
Worldwide Contact Info: [ni.com/global](http://ni.com/global)

## Part Number

910629-xx  
-01 NI Corporate or Branch  
-11 Regional  
-21 Onsite (at your facility)  
-69 Online Instructor Led

- Inheritance
- Aggregation
- Object oriented design
- Tools for using classes by reference – The GOOP Development Suite
- Classes, by-value and by-reference
- Aggregation
- Inheritance
- Application Exercise – design and develop an object oriented test system