

# Learning InstallScript Projects using InstallShield

## Overview

The InstallShield, InstallScript course provides you with a solid understanding of installation terminology, the typical tasks an installation program needs to perform, the InstallScript language, and the InstallShield development environment.

In this course you will learn about the InstallScript language and how to customize your installation script to make changes to your end users' systems.

You will also learn how to correctly identify and install shared files, executables that may be in use, and COM servers. Finally, you will understand how to extend your installation program to use DLL functions, Windows APIs, COM objects and external executables to help you leverage existing code.

## Objectives

In this class you will learn how to:

- Create and organize an installation project
- Install files, registry data and shortcuts
- Work with InstallShield scripts
- Deal with shared and self-registering files
- Call external code or programs from your installation program
- Use Trialware functionality to enable your customers to activate an evaluation version of your application
- Package your installer for Windows Vista

## Course Prerequisites:

Previous InstallShield experience is not required; however, you should be comfortable with the following:

- Using Windows Explorer and the command prompt to create and manage files
- Common installation-related registry keys (e.g. the uninstall key and application information key)
- Registry navigation
- Basic Windows terminology (e.g. DLL, Control Panel, etc.)

Later sections of the course assume familiarity with programming or scripting languages such as VBScript, Visual Basic, and C or C++.

## Course Curriculum

The following course sections and topics will be covered in the class. If you have a specific area that you think might need extra attention, mention it to your instructor on the first day of class.

### Introduction and Overview

- Minimum Development System Requirements
- Getting Help
- Installing InstallShield
- Running InstallShield

### Project Assistant

- Specifying Application Information
- Customizing your Installation's Architecture
- Adding Files to your Project
- Creating Shortcuts
- Configuring Registry Data
- Selecting Dialogs with the Installation Interview Page
- Building your Installation

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## **Installation Designer**

- Setting General Project Information
- FLEXnet Connect View
- Organization Views
- Features
- Components
- Setup Types
- File Links
- Path Variables
- Files and Folders View
- Support Files
- Shortcuts View
- Registry View
- XML File Changes View
- Server Configuration Views
- Releases

## **Installing Files**

### **Installing to Windows Vista**

- User Account Control (UAC)
- Manifests and execution levels
- Digital signatures

## **Distribution Media**

- Release Wizard
- Files Created by the Release Wizard
- Autoplay for CD-ROM Builds
- Trialware
- Command Line Builds with Iscmdbld
- Other Command-Line Tools

## **Working with Scripts, Introduction**

- Event Handlers
- Feature Events
- Miscellaneous Events
- Common Script-Based Tasks

## **Scripts, Syntax**

## **Scripts, Coding**

## **Special Considerations, Locked / Shared Files**

## **Special Considerations, Uninstallation**

## **Extensibility**

- Calling DLL Functions
- Calling Methods in COM Servers
- Calling Windows APIs

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- Launching Applications and Documents
- Launching Other Installations
- Call methods in .NET assemblies

### **Additional Deployment Topics**

- Web-Enabled Installations
- Silent Installations
- Maintenance Options
- Creating Update Installations
- FLEXnet Connect

### **Custom Dialog Boxes**

- Creating a New Custom Dialog Box
- Processing Controls in the Script
- Modifying an Existing Dialog Box
- Handling Silent Mode
- Advanced Topic: Windows Messages and Window Handles

### **Localization**

- Choosing Project Languages
- Support Files
- String Tables and Displayed Text
- File Transfer

### **InstallShield Objects**

- Downloading Objects From the Live Redistributable Gallery
- Using InstallShield Objects
- Object Properties and Methods
- Windows NT Services Object
- Creating InstallShield Objects

### **FLEXnet Connect**

### **Trialware**

- How Trialware Licenses Work
- Types of Trialware
- Creating a Try and Buy/Product Activation Version of your Product
- Try and Buy / Product Activation Experience
- Try and Die Trialware
- Files Installed with a Trialware Product
- Uninstallation of Try and Buy / Product Activation Trialware

### **Advanced Language Topics**

- InstallScript Language Overview
- InstallScript Syntax
- Variables and Data Types
- Defining Functions
- Control Flow and Branching
- Exiting a Script

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- Preprocessor Directives
- InstallShield Script Debugger
- Built-in InstallScript Functions
- Learning About InstallScript Functions
- Built-in Dialog Box Functions
- SD Dialog Box Functions
- Customizing Built-in Dialog Boxes
- Setting Static Text On the Progress Dialog
- Windows Registry
- Windows Shell
- Feature Functions
- File and Folder Functions
- Information Functions
- INI File Functions
- Batch File Functions
- String Functions

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