



# Delphi 2007 Application Development

Technical Training

## Accelerate Your Development

**Course #:** RD11AD20

**Price:** Please contact your regional Borland office for institutional pricing.

**Format:** 5 days - 40 hours,  
50% discussion / 50% hands-on activity

### Delivery Options

Face-to-face instructor led and virtual instructor led

### Audience

The course helps programmers, developers and architects to attain fundamental skills of using Delphi IDE.

### Prerequisites

Working knowledge of the Windows® operating systems. Basic experience in Windows® programming. Basic knowledge in Delphi is an advantage.

### Enroll Today

<http://learn.codegear.com/Delphi>

Explore all CodeGear learning offerings: <http://learn.codegear.com>

Borland Delphi 2007 - Delphi Application Development for Win32 is a 5-day course that introduces Delphi programmers to the fundamental skills of using Delphi 2007 IDE to develop effective applications targeting the Win32 and Vista platforms.

The goal of this workshop is to quickly help you get productive with the new Delphi 2007 IDE, in particular, use unit testing and refactoring, new Delphi for Win32 language features, build powerful database applications with XML, TClientDataSet, Borland dbExpress and DataSnap technologies.

### Description

The Delphi 2007® Delphi Application Development for Win32 training assists those who want to use Delphi to develop Windows VCL Forms Applications.

Concepts covered include an overview of the IDE, new Delphi language features, understanding of projects, XML, TClientDataSet, Borland dbExpress and DataSnap, IntraWeb, VCL web services, integrated Web Deployment, reporting, and multithreading

### Course Concepts

---

#### Introduction

- ALM
- Application Requirements

#### Prototyping Applications

- Prototyping concepts
- Application Forms
- Gathering User Information
- Configuring the Project

#### Object-Oriented Programming

- Classes vs. Objects
- Class Scoping
- Polymorphism
- Typecasting Objects
- Class Methods and Helpers
- Sealed Classes
- Advanced Concepts

#### Business Logic and Graphical User Interface(GUI)

- Business rules vs. business logics
- What is Interface Code

#### UML (Unified Modeling Language)

- Introduction to UML
- Introduction to Together
- Examples

#### The Singleton Design Pattern

- Introduction of Specialized Creational Singleton Pattern
- Application of the Pattern

#### Basic Interface Elements

- VCL Architecture
- Developing the user interface

*Concepts continued on back.*

## **Concepts Continued.**

### **Visual Form Designer and Code Editor**

- Introduction
- Visual Form Designer
- Creating Interfaces
- Code Editor
- Two-way Tool

### **Interface Components**

- Form Hierarchy
- TAbstract Form
- Creating the Interface

### **Lifetime of Objects**

- Object Ownership
- Instantiating of Objects
- Destroying Objects

### **Exception Handling**

- Introduction
- What is an Exception
- Protected Blocks
- Handling Exceptions
- Raising and Re-raising Exceptions

### **Debugger**

- Introduction to the Debugger
- Controlling Program Execution
- Analyzing Data at Runtime
- Controlling Debug Flow

### **Advanced Database Development**

- Database Applications Overview
- Delphi Database Architecture
- Database Access Technologies
- dbExpress
- TClientDataset
- Example

### **Deploying**

- Application Files
- Database Applications
- Using Packages

### **Model-View-Controller**

- Introduction of Model-View-Controller (MVC) Pattern
- Application of the Pattern

### **Introduction to XML**

- XML Overview
- XSL
- XML Parsers
- XML and VCL Components

### **Introduction to IntraWeb**

- Overview
- IntraWeb Components
- IntraWeb Server Controller
- Database Development on the Web
- Frame usage

### **Introduction to Rave Reports**

- Rave Reports Components
- The Rave Visual Designer
- Changing Reports Fields Manually
- Generating the Reports under Delphi
- Further the Rave Designer

### **Introduction to DataSnap**

Introduction to Multi-Tier Data Applications  
DataSnap Components  
Introduction to Creating a 3-Tier Application

### **Building the Meeting Organizer Application**

- Final review and deployment of your Meeting Organizer Application

Actual course content may vary and is subject to modification without notice.