

OUTLINE DELPHI 2006 FOR .NET JUMP START

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COURSE INCLUDES A 300+ PAGE COURSE BOOK PLUS ALL CODE EXAMPLES PRESENTED ALONG WITH ADDITIONAL CODE EXAMPLES.

DELPHI 2006 FOR .NET JUMP START

DELPHI 2006

ABOUT THIS COURSE BOOK.....

OVERVIEW OF THE MICROSOFT .NET FRAMEWORK.....

THE COMMON LANGUAGE RUNTIME (CLR).....

THE COMMON TYPE SYSTEM (CTS)

THE FRAMEWORK CLASS LIBRARY (FCL)

THE COMMON INTERMEDIATE LANGUAGE (CIL).....

THE BENEFITS OF THE .NET FRAMEWORK.....

Security.....

Consistency

Deployment

Platform Independence.....

THE NEW IDE (INTEGRATED DEVELOPMENT ENVIRONMENT).....

THE WELCOME PAGE

ONE IDE, MULTIPLE PERSONALITIES

ONE IDE, MULTIPLE LANGUAGES

THE PANES OF THE IDE

The Tool Palette.....

The Structure Pane.....

The VCL and VCL for .NET Floating Designer.....

The Project Manager.....

The Object Inspector

Model View

Data Explorer

Configuring the Panes of the IDE.....

THE DIALOGS OF THE IDE.....

The Add Reference Dialog.....

The Options Dialog

The Project Options Dialog.....

The Object Repository

IDE Error Reporting

Import/Export Project from/to Visual Studio .NET.....

THE IMPROVED VCL FORM DESIGNER.....

DYNAMIC ALIGNMENT GUIDES

DESIGN GUIDELINES

FORM POSITIONER

- CODE EDITOR.....**
- CODE FOLDING
- REFACTORING
- Symbol Renaming*
- Variable and Field Declarations*
- Resource Refactoring*
- Extract Method Refactoring*
- Change Parameter Refactoring*
- REFACTORING EXAMPLE
- Creating the Project*
- Declare Variable and Extract Method*
- SYNCEdit
- ERROR INSIGHT
- HELP INSIGHT
- LIVE TEMPLATES
- Invoking Live Templates*
- Custom Live Templates*
- Surround Templates*
- BLOCK COMPLETION.....
- THE ENHANCED CODE EDITOR GUTTER.....
- IMPROVED METHOD NAVIGATION
- IMPROVED PAGE MANAGEMENT
- THE HISTORY MANAGER.....
- The Content Pane*
- The Info Pane*
- The Diff Pane*
- Configuring the History Manager*
- PERSISTENT BOOKMARKS
- UPDATED MEMORY MANAGER.....
- VISUAL COMPONENT LIBRARY UPDATES
- New Components*
- Intellimouse Support for VCL*
- Other VCL Enhancements*
- DEBUGGER ENHANCEMENTS
- Remote Debugging*
- Expandable Watches and Local Variables*
- Grouped Watches*
- Symbol Table Management*
- USING THE HELP**
- Viewing by Contents*
- Using the Index*
- Searching Help*
- Remembering Favorites*
- Filtering*
- TYPES OF APPLICATIONS IN DELPHI 2006**
- CONSOLE APPLICATIONS
- WINDOWS FORMS APPLICATIONS
- VCL FOR .NET APPLICATIONS
- ASSEMBLIES
- Strongly Naming an Assembly*
- Installing Assemblies into the Global Assembly Cache (GAC)*
- Viewing the Global Assembly Cache Contents*
- Using a Class Library*

Inspecting a Class Library.....
WEB FORMS APPLICATIONS
WEB SERVICE APPLICATIONS

DELPHI LANGUAGE DIFFERENCES.....

THE FOR... IN LOOP
SUPPORT FOR UNICODE AND UTF8 FORMATS
ATTRIBUTES
NAMESPACES AND UNIT ALIASES
.NET NAMES AND DELPHI RESERVED WORDS
FCL EVENT HANDLERS
STRING AND STRINGBUILDER.....
SUPPORT FOR NESTED TYPES
NESTED TYPE CONSTANTS IN CLASS DECLARATIONS.....
FORWARD DECLARED RECORD TYPES
ENHANCED SUPPORT FOR RECORDS.....
CLASS VARIABLES.....
MORE INLINING OF RTL FUNCTIONS.....

XML DEVELOPMENT WITH DELPHI 2006 FOR .NET.....

INTRODUCTION TO XML
OVERVIEW OF XML DOCUMENTS
Well-Formed XML Documents.....
XML Schema and Valid XML Documents.....
The Schema Definition Tool.....
XML NAMESPACE
WRITING XML
READING XML.....
USING AN XMLDOCUMENT

DATA ACCESS IN DELPHI FOR .NET.....

BORLAND COMPATIBILITY DATA ACCESS.....
Overview of the Borland Database Engine for .NET.....
BDE for .NET Advantages
BDE for .NET Limitations
Overview of dbExpress for .NET.....
dbExpress for .NET Advantages.....
dbExpress for .NET Limitations.....
Overview of dbGo for .NET
Advantages of dbGo for .NET.....
Limitations of dbGo for .NET.....
Overview of MyBase for .NET (ClientDataSets).....
MyBase for .NET Advantages.....
MyBase for .NET Limitations.....
Overview of IBExpress for .NET.....
InterBase Express for .NET Advantages
InterBase Express Limitations
Overview of DataSnap for .NET
DataSnap for .NET Advantages
DataSnap Limitations.....
Overview of Third-Party Data Access Mechanisms.....
Advantages of Third-Party Data Access Mechanisms
Limitations of Third-Party Data Access Mechanisms
Overview of ADO.NET
Advantages of ADO.NET.....

- Limitations of ADO.NET*.....
- Overview of BDP for ADO.NET*.....
- Advantages of BDP for ADO.NET*
- Limitations of BDP for ADO.NET*.....
- DATA ACCESS IN THE .NET FRAMEWORK: ADO.NET**.....
- ADO.NET DATA ACCESS INTERFACES
- IDbConnection*
- IDbCommand*
- IDataReader*.....
- IDbDataAdapter*.....
- CommandBuilder*.....
- THE ADO.NET DATA STORAGE CLASSES
- DataSet*
- DataTable*
- DataRow*
- DataColumn*.....
- DataRelation*.....
- DataRowView*.....
- Constraints*.....
- DataRowView*.....
- USING ADO.NET
- Using Connections*
- Executing IDbCommand Queries*.....
- Working with IDbDataAdapters*.....
- Introduction to DataSets*.....
- Creating and Using DataViews*.....
- CurrencyManagers and Controls*.....
- DataSets with Multiple DataTables and DataRelations*.....
- Creating Calculated and Aggregate Fields*
- Performing Calculations Programmatically*
- Defining Query Parameters*
- Query Parameters and Sql Injection*
- Synchronizing DataSets and XMLDataDocuments*.....
- BORLAND'S ADO.NET EXTENSION: BDP FOR ADO.NET**
- CONNECTING TO DATA USING BDP FOR ADO.NET
- DELPHI'S DATA EXPLORER AND BDP FOR ADO.NET
- Managing Tables*.....
- Data Migration*.....
- Viewing Data*.....
- Executing SQL Queries*.....
- Testing Stored Procedures*.....
- ADVANCED DELPHI 2006 ADO.NET COMPONENTS**.....
- PROVIDING AND RESOLVING WITH DATASYNC AND DATAHUB
- DataSync*
- DataHub*.....
- DATA REMOTING WITH REMOTESERVER AND REMOTECONNECTION
- RemoteServer*
- RemoteConnection*.....
- USING DELPHI 2006'S ADVANCE ADO.NET COMPONENT
- USING DATASYNC AND DATAHUB
- USING REMOTESERVER AND REMOTECONNECTION
- Creating the Remote Client*.....

- Creating the Remote Server*
- WEB DEVELOPMENT WITH ASP.NET**
- An Overview of Web Interactions*
- HTTP Method Request Types*
- SUBMITTING DATA TO ASP.NET PAGES USING HTML
- The Image Tag*
- The Anchor Tag*
- The <Form> Tag*
- OVERVIEW OF ASP.NET
- REQUIREMENTS FOR USING IIS
- Configuring IIS to Run ASP.NET Applications*
- Configuring Virtual Directories*
- PREPARING AND USING CASSINI
- CREATING ASP.NET APPLICATIONS IN DELPHI
- Creating the ASP.NET Project*
- FlowLayout Versus GridLayout*
- Controlling ASP.NET Project Options*
- Designing Your Web Form Interface*
- Validation Controls*
- USING MORE THAN ONE WEB FORM
- The ASP.NET Objects*
- Changing Pages from Server-Side Controls*
- Reading Data from a Request*
- DATA ACCESS AND ASP.NET
- WEB FORM LIFE-CYCLE
- STATE MANAGEMENT
- Client-Side State Maintenance Options*
- Server-Side State maintenance Options*
- GLOBAL.ASAX AND WEB.CONFIG
- DEBUGGING ASP.NET PAGES
- Debugging Using Breakpoints*
- TRACING
- Enabling Trace for Single Web Pages*
- Adding Output to Trace*
- Enabling Application-Level Trace*
- USING CUSTOM ERROR PAGES
- DEPLOYING ASP.NET APPLICATIONS
- ASP.NET WEB SERVICES**
- CREATING A WEB SERVICE APPLICATION WITH DELPHI FOR .NET
- Defining WebMethods*
- Testing a Web Service*
- Adding the WebService Attribute*
- CALLING A WEB SERVICE WITH DELPHI FOR .NET
- INTEGRATING WITH WIN32 EXECUTABLES**
- CALLING WIN32 CODE FROM DELPHI FOR .NET
- Accessing Win32 DLLs*
- More About the DLLImport Attribute*
- Using Virtual Library Interfaces*
- Accessing COM Objects*
- Inspecting the Runtime Callable Wrapper*
- USING .NET EXECUTABLES FROM WIN32
- Exposing .NET Classes As COM Objects*

Deploying Win32 Apps that Use .NET Objects Through COM

CREATING AND USING .NET CLASSES.....

 CREATING THE C# CLASS

 USING THE C# CLASS WITH DELPHI FOR .NET

MIGRATING EXISTING APPLICATIONS

 CONVERTING FROM WIN32

 WIN32 TO .NET AND BACK