

# FastTrack 2 to PowerBuilder 2019 TEMARIO

## **Module 1: Implementing GUI Controls for Enriched Usability**

- Adding Hyperlinks to a Window
- Inputting Data via Vertical Track Bar Controls
- Monitoring Progress Using the VProgressBar Control
- Use a Month Calendar Control
- Use a DatePicker Control
- InkPicture Control
- Animation Control

## **Module 2: Implementing Rich Text Edit**

- Creating a Rich Text Edit DataWindow Object
- Modify and formatting a Rich Text Edit DataWindow Object
- Using a Rich Text Edit DataWindow

## **Module 3: Advanced Treeview Control Techniques**

- Creating a Tree View Control
- Populating the Tree View Control

#### **Module 4: Implementing ListView Controls**

- Modifying the ListView User Object
- Implementing a ListView Control
- Populating the ListView
- Connection the ListView and the Tree View Controls

#### **Module 5: Designing and Scripting Popup Menus**

- Constructing a Popup Menu
- Completing the Popup Menu Scripts
- Using a Popup Menu with TreeView Control

#### **Module 6: Adding Drag and Drop Functionality**

- Implementing Drag-and-Drop between two Controls
- Implementing Drag and Drop in a TreeView Control

#### **Module 7: Many Uses of Tab Controls**

- Creating a Tab Dialog
- Adding Tab Pages
- Referencing Tab Control Objects

#### **Module 8: Embedding OLE Controls into Your Application**

- Explore Available OLE Control

#### **Module 9: Building and Scripting Child DataWindows**

- What is a DataWindow child?
- How to populate a DataWindow child

### **Module 10: Accessing Enterprise Data**

- Accessing data
- Use data expressions to move multiple rows from a DataWindow control to another DataWindow control with a compatible DataWindow object

### **Module 11: Accessing DataWindow Object Properties**

- Reviewing Source Code for a DataWindow Object
- Conditionally Changing Properties
- Updating Multiple Tables

### **Module 12: Moving Data – Pipelines**

- The Pipeline Wizard
- Creating the Pipeline User Object
- Programming the Pipeline from an Application

### **Module 13: Validating Data Entry**

- Basic DataWindow control Behavior
- Level of Validation
- Influencing the Behavior of DataWindow Events
- Validating Data When Closing a Window
- Client Versus Server Validation
- Validation Rules
- Code Table
- Required Columns

## **Module 14: Managing the DataBase Update Process**

- Transaction Management
- Concurrent Access by Multiple Users
- DataWindow Painter – Update Characteristics
- DataWindow Buffers
- Row/Column Status Flags
- Determining the Status of Buffer Rows and columns
- How the DataWindow Engine Generates SQL
- Handling Database Errors
- Multiple Row Updates

## **Module 15: Scripting Dynamic DataWindows**

- Using Dynamic DataWindows
- Building the DataWindow Object Syntax
- Associating DWObject with DWControl

## **Module 16: Ad Hoc Reporting Techniques**

- **Sorting and Filtering**
- Dynamically Modifying the Where Clause
- Changing the WHERE Clause in PowerScript

## **Module 17: Datastores and Sharing Result Sets**

- **What is a DataStore**
- **Creating a DataStore**
- Extending the System DataStore
- Working with Shared Result Sets

## **Module 18: Working with DataWindow Classes – Effective Partitioning Techniques**

- What is a DataStore
- Setting up a DataStore
- Creating Datastores as User Objects
- Data Synchronization Functions
- Sharing Data

## **Module 19: Exception Handling**

- Exception Handling Statement – Try Catch
- Exception System Class Hierarchy
- Custom Exception Classes
- Throwing Exceptions

## **Module 20: Coding and Encryption in PowerBuilder**

- CoderObject
- Coding examples
- CrypterObject
- Encryption Examples
- CompressorObject object in Objects and Controls
- ExtractorObject object in Objects and Controls.
- HttpClient and RestClient Objects

## **Module 21: Working with XML and JSON**

- Understanding XML Document Structure
- Identifying DataWindow Support for XML
- Defining XML Templates in the DataWindow Painter
- Importing and Exporting XML
- What is JSON?

- Importing and Exporting JSON
- JSONPackage object in Objects and Controls
- JSONGenerator object in Objects and Controls
- JSONParser object in Objects and Controls
- ImportJson in DataWindow Reference
- ImportJsonByKey in DataWindow Reference
- ExportJson in DataWindow Reference
- DataWindow JSON
- Calling RESTful Web APIs with HttpClient
- Calling RESTful Web APIs with RestClient

## **Module 22: Working with BlockChain, Artificial Intelligence and Machine Learning**

- Image recognition example
- BlockChain example

## **Module 23: Working with Apache E-charts and WebBrowser control**

- Implementing Apache E-charts in PowerBuilder
- Apache E-charts example

## **Module 24: Configuring PowerClient**

- Creating a Project in PowerClient (details)
- Introducing to PowerServer