PeopleSoft PeopleCode Ed 1

PeopleSoft

DURATION	MODULES	COURSE CODE
5 Days	**10 Lectures**	**—**

Course Overview

> Updated for PeopleTools 8.57; Suitable for students using PeopleTools 8.54 or later.

What You Will Learn

Module 1: Course Introduction

- Lesson 1: Course Overview
- Agenda
- Lesson 2: Technology Overview
- Describing PeopleCode
- How PeopleCode Is Used
- Where PeopleCode Is Used
- Finding PeopleCode Information in PeopleSoft Online Help
- PeopleCode Syntax Conventions

Module 2: PeopleCode Development Tools

- Lesson 3: Using PeopleCode Development Tools
- PeopleSoft Application Development Steps
- Activity 1: Reviewing the PeopleSoft Application Development Process
- Locating PeopleCode Programs
- Using the PeopleCode Editor
- Activity 2: Using the PeopleCode Editor
- Using the PeopleCode Debugger
- Activity 3: Debugging PeopleCode Programs
- Additional Development Tools

Module 3: Component Processor and PeopleCode Events

- Lesson 4: Understanding the Component Processor and PeopleCode Events

- Tracing Component Processor Flow
- Identifying PeopleCode Events
- Search Events
- Activity 4: Using SearchInit to Control the Search Page
- Activity 5: Placing WinMessage in Search Events
- Component Build and Page Display Events
- Activity 6: Placing WinMessage in Component Build Events
- Field Action Events
- Row Action Events
- Activity 7: Placing WinMessage in Row Action Events
- Save Action Events
- Activity 8: Placing WinMessage in Save Action Events
- Add Mode Processing
- Other Processing Flows
- Deferred Processing
- Activity 9: Examining Deferred Processing
- Synchronization Programs

Activity 10: Reviewing Programs That Synchronize Student Addresses with Customer Addresses

Module 4: Writing PeopleCode Programs

- Lesson 5: Writing PeopleCode Programs
- Writing Statements, Conditional Statements, and Loops
- Activity 11: Selecting Correct PeopleCode Events for Error Messages
- Lesson 6: Using PeopleCode Variables
- User-Defined Variables
- System Variables
- Derived/Work Fields
- Activity 12: Calculating and Displaying Derived Values
- Contextual Prompt Table Edits
- Activity 13: Reviewing Setup for Contextual Prompt Table Edits
- Lesson 7: Using PeopleCode Built-In Functions
- Types of Built-In Functions
- Message Catalog Functions
- All, None, and PriorValue Functions
- String Functions
- Fluid Application Functions
- Reserved Words
- Activity 14: Using PeopleCode Built-In Functions
- Lesson 8: Writing User-Defined Functions
- External User-Defined Functions
- Declaring and Calling Functions
- Using Parameters and Returns Clause
- Activity 15: Writing User-Defined Functions

Module 5: Component Buffer Concepts

- Lesson 9: Explaining the Component Buffer
- Occurs Levels
- Component Buffer Allocation
- Execution Order of PeopleCode Programs
- Activity 16: Determining the of the Component Buffer
- Lesson 10: Using Legacy Techniques to Access Component Buffer Data
- Loops to Process Rows
- FetchValue and UpdateValue Functions
- Accessing Data Across Multiple Occurs Levels

Module 6: Object-Oriented PeopleCode

- Lesson 11: Programming With Object-Oriented PeopleCode
- Object-Oriented Terms
- Instantiating Objects
- Dot Notation for Properties and Methods
- Passing Objects by Reference
- Component Buffer Classes Methods
- Activity 17: Using Methods and Properties of the Field Class
- Lesson 12: Referencing Data in the Component Buffer
- Component Buffer Classes
- Current Context
- Traversing the Component Buffer
- Activity 18: Traversing Objects and Data in the Component Buffer
- Shorthand Dot Notation
- Activity 19: Looping Through Data in a Rowset
- Traversing Multiple Occurs Levels
- Activity 20: Modifying Objects at Multiple Occurs Levels
- Lesson 13: Using Additional Component Buffer Methods
- Rowset Sort, Select, and Flush Methods
- Standalone Rowsets
- Activity 21: Using the Select Method to Display Enrollments
- Activity 22: Flushing Data from a Rowset
- Activity 23: Using a Standalone Rowset to Calculate Effort Spent

Module 7: Application Classes

- Lesson 14: Creating and Using Application Classes
- Application Classes and Packages
- PeopleCode Editor for Classes
- Class Structure and Usage
- Activity 24: Creating and Using an Application Class
- Passing Parameters to Methods
- Activity 25: Passing Method Parameters by Value
- Activity 26: Passing Method Parameters by Reference

- Lesson 15: Extending and Implementing Base Classes
- Base Classes and Subclasses
- Abstract Methods and Properties
- Interface Classes
- Activity 27: Extending a Built-in Class

Module 8: Executing SQL in PeopleCode

- Lesson 16: Executing SQL in PeopleCode
- SQLExec Statements
- Activity 28: Updating Effort Spent with SQLExec
- SQL Definitions
- Activity 29: Updating Effort Spent with SQL Definition
- SQL Class and Objects
- Activity 30: Updating Effort Spent Using SQL Object
- Meta-SQL
- Record Objects
- Activity 31: Choosing the Best SQL Option
- Activity 32: Using Object-Oriented Techniques to Execute SQL

Module 9: Charting and Reporting

- Lesson 17: Using PeopleCode to Create Charts
- PeopleCode Charting Classes
- Chart Elements
- Creating Charts
- Activity 33: Creating a Bar Chart

Module 10: Course Workshop and Review

- Lesson 18: Course Workshop
- Activity 34: Using a Standalone Rowset to Track Overtime Hours
- Lesson 19: Course Review
- PeopleCode Concepts
- Development Tools
- Component Processor Events
- Writing PeopleCode Programs
- Component Buffer Manipulation
- Object-Oriented PeopleCode
- Application Classes
- Executing SQL
- Appendices
- Appendix A: Course Workshop Solution
- Appendix B: Navigating in PeopleSoft Applications
- Fluid Banner, Action List, NavBar, Navigator Menu, Global Search
- Appendix C: Activity Solutions and Alternate Solutions
- Appendix D: Component Processor Flow
- Appendix E: Component Buffer Classes and SQL Class Quick Reference