



info@kashatraining.com

Call: (IN) 8447799888
(US) +1 (515) 442-2418

PeopleSoft Technical / PeopleTools Training Curriculum Online by Certified Consultant

Module 1: Introduction to PeopleSoft and PeopleTools

- Overview of PeopleSoft Applications
- Introduction to PeopleTools Architecture
- PeopleSoft Internet Architecture (PIA)
- PeopleSoft Product Suite Overview
- Understanding Technical vs Functional Roles
- PeopleTools Components and Features
- Development Environment Setup
- PeopleSoft Application Designer Overview

Module 2: PeopleSoft Architecture and Database Concepts

- PeopleSoft System Architecture
- Application Server Architecture
- Process Scheduler Architecture
- Web Server Architecture
- Database Architecture
- Understanding Records and Tables
- Data Flow in PeopleSoft
- Multi-Tier Architecture Concepts

Module 3: PeopleSoft Application Designer

- Introduction to Application Designer
- Creating and Managing Projects
- Records and Fields
- Pages and Components
- Menus and Navigation
- Build and Upgrade Processes
- Object Migration
- Development Best Practices

Module 4: PeopleSoft Record Definitions



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- Record Types
- SQL Tables and Views
- Dynamic Views
- Derived/Work Records
- Subrecords
- Record Relationships
- Keys and Indexes
- Record Field Properties

Module 5: Page and Component Development

- Page Design Fundamentals
- Page Controls and Layouts
- Component Structure
- Component Interfaces
- Search Records
- Component Buffer Concepts
- User Interface Design
- Navigation Collections

Module 6: PeopleCode Fundamentals

- Introduction to PeopleCode
- PeopleCode Syntax and Structure
- Variables and Data Types
- Functions and Methods
- Conditional Statements
- Loops and Iterations
- Exception Handling
- Debugging Techniques

Module 7: Advanced PeopleCode Development

- Component Processor Concepts
- Rowset Processing
- Record and Field Objects
- Application Classes
- Object-Oriented PeopleCode
- File Handling
- Dynamic SQL
- Event Mapping



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Module 8: Component Interfaces

- Introduction to Component Interfaces
- Creating Component Interfaces
- Exposing Business Logic
- Testing Component Interfaces
- Error Handling
- CI Security
- Integration Scenarios
- Performance Considerations

Module 9: Application Engine (AE)

- Application Engine Overview
- Creating Application Engine Programs
- Sections, Steps, and Actions
- SQL Actions
- PeopleCode Actions
- Temporary Tables
- Restartability
- Performance Tuning

Module 10: SQR (Structured Query Report)

- Introduction to SQR
- SQR Program Structure
- Variables and Procedures
- Database Access
- Report Formatting
- Error Handling
- Scheduling SQR Programs
- SQR Best Practices

Module 11: PeopleSoft Query

- Query Manager Overview
- Creating Queries
- Expressions and Criteria
- Prompts and Runtime Parameters



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- Joins and Subqueries
- Aggregate Functions
- Query Security
- Reporting with Queries

Module 12: Integration Broker

- Introduction to Integration Broker
- Service-Oriented Architecture (SOA)
- Message Definitions
- Service Operations
- Routing Configuration
- Asynchronous and Synchronous Messaging
- REST Services
- SOAP Web Services

Module 13: Web Services and API Integration

- REST API Integration
- SOAP Web Services
- JSON and XML Processing
- Consuming External Services
- Publishing Services
- Authentication Mechanisms
- Integration Testing
- Troubleshooting Integrations

Module 14: File and Data Migration Tools

- Data Mover Utility
- Import and Export Data
- Copy Projects to Other Environments
- Migration Strategies
- Change Assistant Overview
- Upgrade Projects
- Environment Synchronization
- Deployment Best Practices

Module 15: Process Scheduler and Batch Processing



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- Process Scheduler Architecture
- Creating Process Definitions
- Job Definitions
- Batch Processing Concepts
- Scheduling Processes
- Monitoring Processes
- Error Handling
- Performance Optimization

Module 16: PeopleSoft Security Administration

- User Profiles
- Roles and Permission Lists
- Row-Level Security
- Query Security
- Web Profile Configuration
- Single Sign-On (SSO)
- Security Auditing
- Security Best Practices

Module 17: Reporting Tools

- PS Query Reporting
- BI Publisher Basics
- XML Publisher Reports
- Crystal Reports Overview
- Pivot Grid Development
- Kibana and Elasticsearch Integration
- Report Distribution
- Reporting Best Practices

Module 18: Fluid User Interface Development

- Introduction to PeopleSoft Fluid UI
- Fluid Pages and Components
- Responsive Design Concepts
- Tiles and Homepages
- Navigation Collections
- Branding and Themes
- Mobile Optimization
- Fluid Development Best Practices



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Module 19: Performance Tuning and Troubleshooting

- SQL Performance Tuning
- Application Engine Optimization
- PeopleCode Optimization
- Query Performance Tuning
- System Monitoring
- Log File Analysis
- Debugging Techniques
- Troubleshooting Common Issues

Module 20: PeopleSoft Upgrade and Change Management

- PeopleTools Upgrade Process
- Change Assistant
- Selective Adoption
- Update Manager (PUM)
- Retrofitting Customizations
- Testing and Validation
- Deployment Planning
- Upgrade Best Practices

Module 21: Real-Time Business Scenarios

- Employee Self-Service Customization
- Workflow Automation
- Data Import and Validation
- Custom Page Development
- REST API Integration Project
- Batch Processing Solution
- Security Configuration Scenario

Module 22: Capstone Project

- End-to-End PeopleSoft Technical Development
- Custom Component Development
- Application Engine Program Creation
- PeopleCode Customization
- Integration Broker Configuration



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- BI Publisher Report Development
- Security Setup
- Final Project Presentation