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Oracle APEX Development Training Curriculum Online by Certified Consultant

Module 1: Introduction to Oracle APEX

- Overview of Oracle APEX (Application Express)
- Low-Code Development Concepts
- Oracle APEX Architecture
- Oracle Database and APEX Relationship
- APEX Workspace Setup
- APEX Development Environment
- APEX Features and Benefits
- Application Development Lifecycle

Module 2: Oracle Database Fundamentals for APEX

- Oracle Database Overview
- Tables, Views, and Indexes
- SQL Fundamentals
- DDL, DML, and DCL Commands
- Data Modeling Concepts
- Constraints and Relationships
- Sequences and Synonyms
- Database Best Practices

Module 3: SQL and PL/SQL Essentials

- SQL Query Fundamentals
- Joins and Subqueries
- Aggregate Functions
- Stored Procedures
- Functions and Packages
- Triggers
- Exception Handling
- PL/SQL Best Practices

Module 4: Oracle APEX Development Environment



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- APEX Workspace Administration
- Application Builder Overview
- SQL Workshop
- Team Development Features
- Object Browser
- REST Workshop
- Application Export and Import
- Environment Management

Module 5: Creating Your First APEX Application

- Application Creation Wizard
- Application Structure
- Navigation Menus
- Authentication Setup
- Themes and Templates
- Application Configuration
- Page Management
- Deployment Basics

Module 6: APEX Pages and Components

- Page Types Overview
- Form Pages
- Report Pages
- Interactive Reports
- Interactive Grids
- Master-Detail Pages
- Dashboard Pages
- Dynamic Content Pages

Module 7: Forms and Data Processing

- Creating Data Entry Forms
- Form Validations
- Form Processing Logic
- Automated Row Processing (ARP)
- LOV (List of Values) Management
- Cascading LOVs
- Data Integrity Controls
- Transaction Management



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Module 8: Reports and Data Visualization

- Classic Reports
- Interactive Reports
- Interactive Grids
- Cards and Tiles
- Charts and Graphs
- Dashboard Development
- KPI Reporting
- Data Visualization Best Practices

Module 9: Dynamic Actions and Client-Side Development

- Dynamic Actions Overview
- Event-Based Programming
- Client-Side Validations
- JavaScript Integration
- jQuery Usage in APEX
- Dynamic UI Enhancements
- AJAX Processing
- User Experience Optimization

Module 10: Advanced APEX Components

- Faceted Search
- Smart Filters
- Calendars
- Maps Integration
- Tree Structures
- Timeline Components
- Region Display Selectors
- Advanced Interactive Features

Module 11: Authentication and Authorization

- Authentication Schemes
- Authorization Schemes
- User Roles Management
- Session Management



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- Single Sign-On (SSO)
- LDAP Integration
- OAuth Authentication
- Security Best Practices

Module 12: RESTful Services and API Integration

- RESTful Web Services
- REST Data Sources
- Consuming External APIs
- Creating REST APIs
- JSON Processing
- Web Service References
- API Authentication
- Integration Scenarios

Module 13: Oracle APEX Security

- Secure Coding Practices
- SQL Injection Prevention
- Cross-Site Scripting (XSS) Protection
- Session Security
- Access Control
- Data Protection Techniques
- Security Auditing
- Compliance Considerations

Module 14: APEX Application Deployment

- Application Export and Import
- Environment Migration
- Version Control Concepts
- Deployment Strategies
- Backup and Recovery
- Continuous Delivery Basics
- Production Readiness Checks
- Deployment Best Practices

Module 15: Oracle APEX Administration



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- Workspace Management
- User Administration
- Instance Administration
- Monitoring Applications
- Performance Management
- Resource Utilization
- Troubleshooting Techniques
- Application Lifecycle Management

Module 16: Performance Optimization

- SQL Performance Tuning
- Report Optimization
- Page Rendering Optimization
- Database Performance Considerations
- Session State Management
- Efficient Data Processing
- Caching Strategies
- Performance Monitoring

Module 17: Oracle APEX with Oracle Cloud

- Oracle APEX on Oracle Cloud Infrastructure (OCI)
- Autonomous Database Integration
- Oracle REST Data Services (ORDS)
- Cloud Deployment Models
- Cloud Security Considerations
- APEX Service Management
- Integration with Oracle Cloud Services
- Scalability and Availability

Module 18: Real-Time Business Applications

- Employee Management System
- Customer Relationship Management (CRM) Application
- Inventory Management System
- Sales Tracking Dashboard
- Leave Management System
- Procurement Approval Workflow
- Help Desk Application
- Project Tracking Portal



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Module 19: Oracle APEX Best Practices

- Application Design Standards
- Reusable Components
- Naming Conventions
- UI/UX Design Principles
- Security Guidelines
- Maintainability Strategies
- Documentation Standards
- Development Governance

Module 20: Capstone Project

- End-to-End Oracle APEX Application Development
- Database Design and Setup
- User Authentication and Security
- Forms and Reports Development
- Dashboard and Analytics Creation
- REST API Integration
- Application Deployment
- Final Project Presentation