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Oracle Visual Builder Cloud Service (VBCS)

Course Content

1. Oracle Visual Builder Cloud Service – Enterprise Overview

- Introduction to Oracle Visual Builder
- Key capabilities and enterprise use cases
- VBCS architecture and components
- Comparison: Visual Builder vs Visual Builder Studio
- Positioning VBCS in Oracle Cloud ecosystem

2. Environment Setup and Application Workspace Management

- Accessing VBCS instances
- Understanding development, staging, and production environments
- User roles, permissions, and security concepts
- Application workspace structure
- Managing application artifacts

3. Application Development Fundamentals

- Creating web applications using visual tools
- Understanding application structure
- Exploring UI and data binding concepts
- Running and previewing applications
- Basic configuration and deployment settings





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4. Data Modeling and Business Objects

- Introduction to Business Objects
- Designing data models
- Defining attributes, keys, and relationships
- Implementing CRUD operations
- Securing business objects
- Data import/export strategies

5. Enterprise Integrations Using Service Connections

- REST API fundamentals
- Creating and configuring service connections
- Integrating external systems
- Connecting with Oracle Fusion Cloud Applications
- Request and response mapping
- Error handling and authentication overview

6. User Interface Design and Page Development

- Page architecture and layouts
- Designing responsive user interfaces
- Working with forms, tables, and UI components
- Component properties and data binding
- UI customization and styling best practices

7. Navigation and Application Flow

- Page flows and routing
- Implementing application navigation





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- Passing parameters between pages
- Conditional navigation logic
- Shell pages and layout management

8. Business Logic Implementation Using Action Chains

- Understanding Action Chains
- Event-driven application behavior
- Data operations using Action Chains
- Conditional logic and decision flows
- Error and success handling mechanisms

9. Client-Side Enhancements Using JavaScript

- Role of JavaScript in VBCS
- Writing custom JavaScript logic
- Accessing page variables and components
- Enhancing user interactions
- Best practices for maintainable scripts

10. Advanced VBCS Capabilities

- Dynamic UI behavior
- File upload and download implementation
- Variable management and scope
- Reusable components and fragments
- Debugging and performance optimization





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11. Application Lifecycle Management

- Testing and validation strategies
- Publishing applications
- Environment promotion strategies
- Versioning and rollback concepts
- Monitoring and maintenance overview

12. Version Control and Team Collaboration

- Introduction to Visual Builder Studio
- Git integration and repository management
- Branching and merging strategies
- Team-based development workflows
- Best practices for enterprise collaboration

