



**ITG-IBM-200**

**WebSphere Commerce 7.8 for Developers**

# ITG Software Engineering

## Course Overview:

This 4 day course will cover the IBM WebSphere Commerce architecture and development environment, the business logic and models, supported system topologies along with the available IBM WebSphere Commerce versions. You will also learn practical techniques and patterns of developing in the IBM WebSphere Commerce V7 environment.

## Prerequisites:

Database knowledge, Java or Java EE application development, HTML, SQL, and XML.

## Who Should Attend this course?

Those interested in creating WebSphere Commerce applications.

## Topics:

• Introduction	• Runtime Architecture
• Components	• Programming Model I
• Programming Model II	• Business Objects
• Enterprise Commerce Beans	• Data Services Layer
• Storefront Pages Development	• Store Archive
• Basic Store Creation & Customization	• WebSphere Commerce Web Services
• Inbound/outbound Web Services	• Administrative Tools
• Solr & IBM WebSphere Commerce	• WebSphere Commerce Caching
• WebSphere Commerce Registry	• Design Patterns
• WebSphere Commerce Studio	• Object Life Cycle

# ITG Software Engineering

---

## DAY 01 MODULES: WebSphere Commerce 7.8 for Developers

### ***Module 01: Introduction***

- Data and tools used in this course
- IBM WebSphere Commerce Overview for Developers
- IBM WebSphere Commerce 7.8 Architecture
- IBM WebSphere Commerce 7.8 Development

### ***Module 02: Runtime Architecture & Components***

- Business Considerations
- Runtime Configurations
- Runtime Architecture Components
- Runtime Environment Implementations

### ***Module 03: WebSphere Commerce Programming Model I***

- Key Concepts & Technologies
- Model-View-Controller (MVC) Design Pattern
- Approaches to Application Development
- Web Controller and Commands

### ***Module 04: WebSphere Commerce Programming Model II***

- Data Beans & Views
- Error Handling
- Debugging
- Program Trace Messages

# ITG Software Engineering

---

## DAY 02 MODULES: WebSphere Commerce 7.8 for Developers

### ***Module 05: WebSphere Commerce Business Object Document (BOD)***

- Advanced BOD Processing Patterns
- BOD Versions
- Configuration Data for BOD Service Modules
- BOD Command Framework and Error Handling
- Cache Invalidation using BOD

### ***Module 06: WebSphere Commerce Enterprise Beans***

- Object Life Cycle
- Physical Data Container
- Access Beans
- Extend the Existing WebSphere Commerce Object Model

### ***Module 07: Data Service Layer***

- Object Life Cycle
- Business Object Mediator (BOM)
- Physical Data Container
- WebSphere Commerce Extended Xpath Notation

### ***Module 08: Store Front Pages Development***

- Developing Store Business Logic
- Customizing Store Business Logic
- Storefront Pages Development
- Customizing Store Front-Pages

# ITG Software Engineering

---

## DAY 03 MODULES: WebSphere Commerce 7.8 for Developers

### **Module 09: Store Archive Overview:**

- Store Archive Contents
- Recommended Structure of a SAR
- Creating a Store Archive
- Commerce Studio Store Archive Project
- Data Flow between SAR and WebSphere Commerce Studio

### **Module 10: Basic Store Creation & Customization:**

- Overview
- Basic Customizations Techniques
- Store Types
- Approaches to creating a store

### **Module 11: WebSphere Commerce Web Services**

- Services Functional Architecture
- WebSphere Commerce Service Module
- Service Binding
- Component Façade Interfaces
- Design Patterns

### **Module 12: Inbound/Outbound Web Services**

- Overview
- Inbound/Outbound Web Services Overview
- Creating an Inbound Web Service with OAGIS
- Creating an Outbound Web Service Client

# ITG Software Engineering

---

## DAY 04 MODULES: WebSphere Commerce 7.8 for Developers

### ***Module 13: Administrative Tools***

- Administrative Tools Overview
- Management Center Tools
- WebSphere Commerce Accelerator
- IBM Sales Center
- Organization Administration Console

### ***Module 14: Solr and IBM WebSphere Commerce***

- Solr Overview
- Solr Data Input Handler (DIH)
- The role of Solr in the Preprocessing of the Search Index Data
- Using Solr

### ***Module 15: WebSphere Commerce Registry and Caching***

- Registry Components
- Updating & Refreshing Registry Components
- WebSphere Commerce Caching Techniques
- DynaCache