

# **Application Development Fundamentals**

**Course Duration: 24 Hours (3 Days)**

## **Overview**

The Application Development Fundamentals course is designed for those seeking to become a ServiceNow Certified Application Developer. It provides learners with a comprehensive understanding of scripting, application development tools, and best practices within the ServiceNow platform. By exploring modules that cover everything from client-side scripting and Business logic to Integrating external data and Automated testing, participants will gain the skills necessary to create robust applications within ServiceNow. Throughout the course, students will engage in various lessons and labs, learning to navigate and utilize the ServiceNow environment effectively. They will also delve into the specifics of the ServiceNow Application Developer Certification exam to prepare for this valuable industry credential. By the end of the course, learners will have the knowledge and experience to develop, deploy, and manage applications that leverage ServiceNow's capabilities, positioning themselves as skilled developers in the growing field of enterprise service management.

## **Audience Profile**

The Application Development Fundamentals course is designed for IT professionals looking to enhance their app development skills using modern tools and methodologies.

- Aspiring Application Developers
- Junior Software Developers
- IT Analysts focused on application development
- ServiceNow Developers and Administrators
- Systems Engineers interested in scripting and automation
- Technical Consultants involved in application implementation
- IT Professionals transitioning to scripting and app development roles
- Computer Science and Information Technology students
- Business Analysts seeking to understand the technical aspects of app development
- UI/UX Designers interested in the technical implementation of designs
- Database Administrators looking to expand into app development
- Software Development Managers overseeing application projects
- Quality Assurance Testers and Engineers
- Service Catalog Managers
- Technical Project Managers overseeing application development projects
- IT Support Staff aiming to automate and streamline processes

## **Course Syllabus**

## **Module 1 - Application Development Overview**

- ADF: Introduction to Application Development
- ADF: Scoped Application Model
- ADF: Application Development vs. Application Deployment
- ADF: Module 1 Demo

## **Module 2 - Application Analysis and Design**

- ADF: Application Analysis and Design
- ADF: Building a Scoped Architecture Data Model – Database Logic and User Interface
- ADF: Lab 2.1 – The Loaner Request Application

## **Module 3 - Creating Applications and Modules**

- ADF: Creating Applications and Modules
- ADF: Creating a Custom Application (Tables and Data Model) Using the Guided App Creator (GAC)
- ADF: Lab 3.2 – Create an application
- ADF: Linking the Loaner Application to a GitLab Repository
- ADF: Lab 3.3 – Link the Loaner Application to a GitLab Repository
- ADF: Configuring Application Menus, Creating Files, and Committing Changes
- ADF: Lab 3.4 – Create an Application Menu and Files

## **Module 4 - Working with Application Forms**

- ADF: Application Forms
- ADF: Forms, Fields, Lists, and Views
- ADF: Lab 4.1 – Working with Fields and Views
- ADF: Scripting (Part 1 of 3)
- ADF: Scripting (Part 2 of 3)
- ADF: Scripting (Part 3 of 3)
- ADF: Lab 4.2a & 4.2b – Creating a UI Policy and Scripting
- ADF: Application Management
- ADF: Lab 4.3 – Committing Changes and Migrating an Application

## **Module 5 - Controlling Access**

- ADF: Configuring Application Security
- ADF: Configuring Application Security (Part 2)
- ADF: Lab 5.1 – Configure Application Security
- ADF: Setting Application Access
- ADF: Lab 5.2 – Set Application Access

## **Module 6 - Automating Workflows**

- ADF: Using Flow Designer to Manage Deployment States
- ADF: Lab 6.1 – Flow Designer for Deployment State Management
- ADF: Creating Application Properties
- ADF: Lab 6.2 – Creating Application Properties
- ADF: Scheduled Script Execution and Email (Part 1)
- ADF: Scheduled Script Execution and Email (Part 2)
- ADF: Lab 6.3 – Scheduled Script Execution and Email
- ADF: Script Includes and Committing Changes
- ADF: Lab 6.4 – Script Includes and Committing Changes

## **Module 7 - Importing and Integrating External Data**

- ADF: Importing and Integrating External Data
- ADF: Lab 7.1 – Importing Records from a Spreadsheet
- ADF: Web Services
- ADF: Lab 7.2 – Web Service Consumer

## **Module 8 - Testing with the Automated Test Framework (ATF)**

- ADF: Testing with the Automated Test Framework (ATF)
- ADF: Lab 8.1 – Testing with ATF

## **Module 9 - Advanced Topics in Application Development**

- ADF: Additional Application Development Topics
- ADF: Lab 9.1 – Service Catalog
- ADF: Lab 9.2 – Outbound REST Message

## **Certified Application Developer Voucher Information**

- Information about the certification voucher for participants