



Aptify®

# Developer I Class Description

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## Duration 2 days

Class begins promptly at 9:00 AM, with a morning break, hour lunch break, and an afternoon break. Class is scheduled to end at 4:00 PM each day, but times may vary based on student questions and discussions.

## Hours Estimates

All hours listed in parenthesis are estimates—actual times will differ based on many variables such as:

- Student Ability
- Questions
- Side Discussions
- Labs & Exams

## Overview

This course provides an overview of the Developer features of Aptify 6.0. The course is designed for individuals who will develop for an Aptify installation. This course builds on the material from the Aptify Administrator class, which is a prerequisite. Students will obtain hands-on experience developing using a sample system in a controlled training environment. The focus of the class is on learning to develop meta- data-based configurations using the Aptify Desktop Application.

## Who Should Attend

Course is intended for:

- Developers
- Database Administrators
- System Administrators
- System Programmers

## Course Prerequisites

### Required

- Completion of the Administrator Course
- Database Knowledge

### Preferred

- Familiarity with basic development or program configuration
- Familiarity with SQL

# Day 1

## Developer I Training Overview (15 Minutes)

- Objective
- Course Prerequisites

## Architecture (1 Hour)

- Core Technologies
- Metadata Applications
- Metadata Services
- Data Model and Objects Introduction
- Aptify Framework Applications and Functionality
- Aptify Business Applications

## Entity Configuration (4 Hours 15 Minutes)

- Entity Features
- Entity Field Basics
- Script-Based Validations
- Database Objects
- Entity Attributes
- Advanced Entity Topics
- Embedded Objects
- Direct Object Access
- Virtual Fields
- Optional Embedded Objects
- Virtual Entities
- Entity Best Practices
- Building the Class Project Entities

## Day 2

### Process Pipeline (3 Hours)

- Process Pipeline Structure and Data Structure
- Process Flows
- Process Flow Steps
- Process Flow Components
- Process Flow Debugger
- Using Variables
- Using Variables and Static Values
- Aptify Events
- Scheduled Execution
- Event Data Structure
- Event Definitions
- Event Handlers
- Synchronous and Asynchronous Execution
- Multiple Step Process Flows
- CRUD Components
- Value Tester and Value Retriever Components
- Staging Entities
- Record Validation
- Compilations
- Script Steps
- Sub-Processes
- VB Scripts

## Form Templates (1 Hour)

- Visual Designer
- Visual Designer Actions
- Modifying Forms
- Adding and Removing Controls
- Adding a Single Field Control
- Adding a Data Combo
- Form Template Metadata
- Form Template Hierarchy

## Wizards (1 Hour)

- Uses of Wizards
- Data Entry Wizards
- Batch Processing Wizards
- Entity Bulk Operations – Alternative to Wizards
- Development Methodologies
- Metadata Wizards
- Code-based Wizards
- Metadata Wizard Design
- Creating Metadata Wizards
- Controlling Wizard Page Flow

## Reports (30 Minutes)

- Crystal Report Development
- Tools to Develop Crystal Reports
- Integrating Reports in Aptify
- Report Wizard at Run-time
- Creating a List Report/Creating a Grouped Report

## Data Archiving (30 Minutes)

- Reasons for Archiving
- Key Areas
- Preventive Strategies
- Archiving
- Creating a Lists Archive

## Configuration Migration (30 Minutes)

- Methodology
- Using the Entity Packer and Unpacker Wizards
- Using the Data Packer and Unpacker Wizard
- Packing Form Templates