

# HCLSoftware Certification Program

## HCLSoftware Certified Volt MX 9.5 Professional Developer (HCL-VMX-PDEV-95) Certification Exam Guide

### Introduction

This certification exam is the second level in your HCL Volt MX certification journey. This certification is to validate the application of your knowledge on developing cross platform applications using HCL Volt MX 9.5.

The HCLSoftware Certified Volt MX 9.5 Professional Developer must demonstrate skills associated with developing applications using the Volt MX product in areas such as UI design, UX, IRIS low code capabilities, IRIS SDK, IRIS widgets and data format, IRIS coding, Foundry, Foundry SDK, Foundry custom code, Application technical requirements, IRIS extensibility, Foundry extendibility and Marketplace components.

### Requirements

- There are no pre-certification requirements to attempt this HCLSoftware Certified Volt MX 9.5 Professional Developer certification.

### Exam Format

- Multiple choice: Has one correct response and three incorrect responses
- Multiple choice: Has two or more correct responses out of five or more response options
- Number of questions: 24
- Total score: 83
- Passing score: 58
- Passing Percentage: 70%
- Time duration for answering the 24 questions: 60 minutes.
- Total exam time duration: 75 minutes.
- Unanswered questions are scored as incorrect; there is no penalty for guessing.

### Exam Results

The HCLSoftware Certified Volt MX 9.5 Professional Developer (HCL-VMX-PDEV-95) certification exam is a pass or fail exam. The exam is scored against a minimum standard established by HCLSoftware subject matter experts who follow certification industry best practices and guidelines.

The exam is scored based on a Sum of Scores which is then converted into a percentage to determine pass or fail. The sum of scores is achieved by weight assigned to each individual question based on level of complexity. The minimum score required to pass the exam is 58 out of a total of 83 points, which is 70%.

### Exam Content

This exam guide includes competency areas and weightings for the exam as seen below. This exam covers content specifically for HCL Volt MX 9.5.

# HCLSoftware Certification Program

| Competency Area                    | % of Examination |
|------------------------------------|------------------|
| Iris                               | 43%              |
| Foundry                            | 29%              |
| UI/UX                              | 20%              |
| Application Technical Requirements | 4%               |
| Marketplace Components             | 4%               |
| <b>TOTAL</b>                       | <b>100%</b>      |

## Competency Area 1: Volt MX Iris

### 1.1 Iris Low Code Capabilities

- [Data panel – configuring dynamic UI properties](#)
- [Preview and collaborate on Iris project](#)
- [Form template](#)
- [Pass data from one form to another](#)
- [Pass custom data from one form to another](#)
- [Get logged in user information using low-code capabilities in Iris](#)

### 1.2 Iris SDK

- [Locations API](#)
- [Segment widget APIs](#)
- [Store APIs](#)
- [Map widget APIs](#)
- [Image widget APIs](#)
- [Local Authentication APIs](#)

### 1.3 Iris Widgets & Data Format

- [Browser widget and data format](#)
- [Segment properties](#)
- [ListBox widget and data format](#)
- [CheckboxGroup widget properties](#)
- [Browser widget properties](#)
- [Map widget and data format](#)

### 1.4 Iris Coding

- [ES6 JavaScript in Iris](#)
- [RequireJS modules in Iris](#)
- [iOS Native function APIs](#)
- [Android Native function APIs](#)
- [Components in Iris](#)
- [Template controller methods](#)
- [Accessing function from one form controller from another](#)

### 1.5 Iris Extensibility

- [Support for Cordova application](#)
- [Android Native function APIs](#)
- [iOS custom widget](#)
- [Android custom widget](#)
- [Native platform widgets](#)

# HCLSoftware Certification Program

- [SPA custom widgets](#)
- [SPA custom widgets](#)

## Competency Area 2: Volt MX Foundry

- 2.1 Foundry
  - [Identity services](#)
  - [JSON integration services](#)
  - [Orchestration services](#)
  - [Workflow services](#)
  - [API management](#)
- 2.2 Foundry SDK
  - [Initializing VoltMX JS client SDK](#)
  - [Initializing VoltMX JS client SDK manually through code](#)
  - [Invoke configuration services](#)
  - [Initialize Data object](#)
  - [Support for ODATA in object services](#)
  - [Invoke integration services](#)
- 2.3 Foundry Custom Code
  - [Java pre/post processors for object services](#)
  - [DataControllerRequest class](#)
  - [JavaScript pre/post processors for integration services](#)
  - [Rules pre/post processors](#)
  - [Java services](#)
- 2.4 Foundry Extendibility
  - [Custom data adaptor in Foundry](#)

## Competency Area 3: UI/UX

- 3.1 UI Design
  - [Custom CSS](#)
  - [Application Extension](#)
  - [Using local HTML content](#)
  - [Android manifest](#)
  - [Custom widget](#)
  - [Components](#)
- 3.2 UX
  - [Flex form methods](#)
  - [Application library functions](#)
  - [RTL support](#)
  - [Animations](#)
  - [Interstitial Screens](#)
  - [Segment widget animations](#)

## Competency Area 4: Application Technical Requirements

- [Application security](#)
- [Application library APIs](#)
- [Identity service configurations](#)
- [Foundry services throttling configurations](#)
- [URL provider](#)
- [Integration service configurations](#)

# HCLSoftware Certification Program

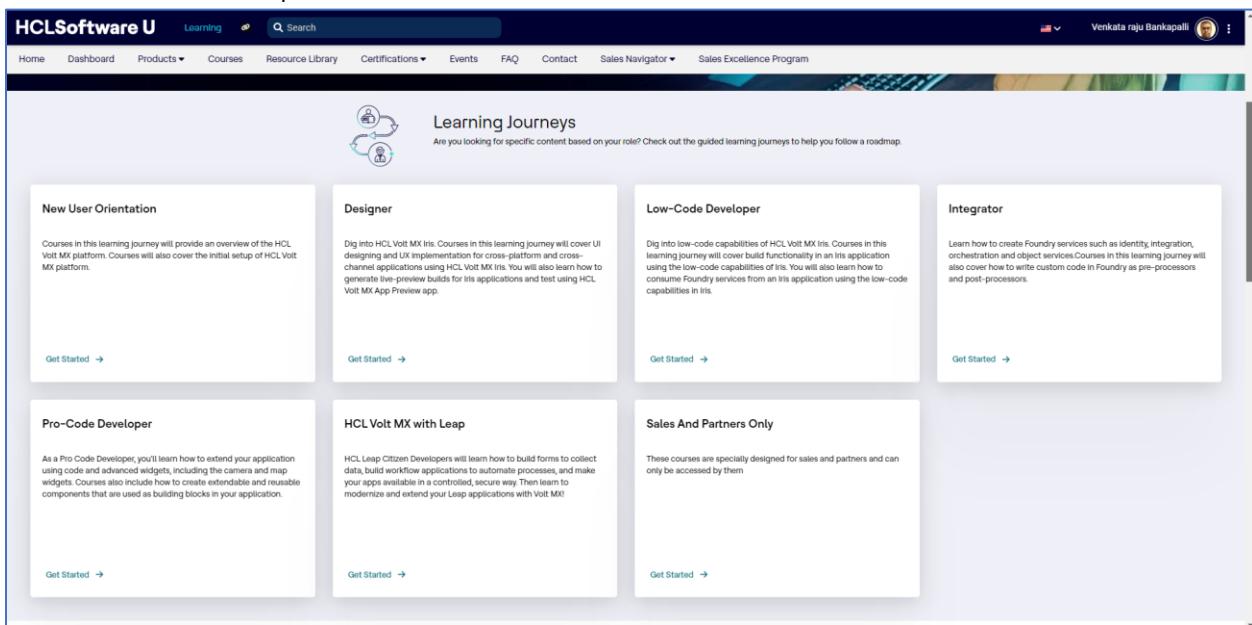
- [Server events configurations](#)
- [Configuration of Foundry logger levels](#)

## Competency Area 5: Marketplace Components

- [Private marketplace](#)

## Exam Preparation Resources

- It is recommended to complete the HCL Volt MX 9.5 self-paced training available on HCLSoftware U. Access the HCL Volt MX 9.5 self-paced training using the below link.  
[HCL Volt MX 9.5 self-paced training»](#)
- The self-paced training is organized on persona based. It is recommended to go through the self-paced training in the below mentioned order
  - New User Orientation
  - Designer
  - Low-Code Developer
  - Integrator
  - Pro-Code Developer



The screenshot shows the HCLSoftware U Learning Journeys page. At the top, there is a navigation bar with links for Home, Dashboard, Products, Courses, Resource Library, Certifications, Events, FAQ, Contact, Sales Navigator, and Sales Excellence Program. A user profile for Venkata raju Bankapalli is visible on the right. The main content area is titled 'Learning Journeys' and features a sub-section titled 'Learning Journeys' with the sub-instruction: 'Are you looking for specific content based on your role? Check out the guided learning journeys to help you follow a roadmap.' Below this, there are six cards representing different personas, each with a 'Get Started' button:

- New User Orientation**: Courses in this learning journey will provide an overview of the HCL Volt MX platform. Courses will also cover the initial setup of HCL Volt MX platform.
- Designer**: Dig into HCL Volt MX Iris. Courses in this learning journey will cover UI designing and UX implementation for cross-platform and cross-channel applications using HCL Volt MX Iris. You will also learn how to generate live-preview builds for Iris applications and test using HCL Volt MX App Preview app.
- Low-Code Developer**: Dig into low-code capabilities of HCL Volt MX Iris. Courses in this learning journey will cover build functionality in an Iris application using the low-code capabilities of Iris. You will also learn how to consume Foundry services from an Iris application using the low-code capabilities in Iris.
- Integrator**: Learn how to create Foundry services such as identity, integration, orchestration and object services. Courses in this learning journey will also cover how to write custom code in Foundry as pre-processors and post-processors.
- Pro-Code Developer**: As a Pro Code Developer, you'll learn how to extend your application using code and advanced widgets, including the camera and map widgets. Courses also include how to create extendable and reusable components that are used as building blocks in your application.
- HCL Volt MX with Leap**: HCL Leap Citizen Developers will learn how to build forms to collect data, build workflow applications to automate processes, and make your apps available in a controlled, secure way. Then learn to modernize and extend your Leap applications with Volt MX!
- Sales And Partners Only**: These courses are specially designed for sales and partners and can only be accessed by them.

- In addition to the HCL Volt MX 9.5 self-paced training refer to the links from the above competency areas.

## Exam Registration

Registration for this exam is available on the HCLSoftware Academy page that is located on the Pearson Vue website.

<https://home.pearsonvue.com/hclsoftwareacademy>