

HCLSoftware Certification Program

HCLSoftware Certified Volt MX 9.5 Foundation Developer (HCL-VMX-FDEV-95) Certification Exam Guide

Introduction

This certification exam is the starting point of your HCL Volt MX certification journey. This certification is to validate your basic knowledge of developing cross platform applications using HCL Volt MX 9.5. This certification is exclusively for HCL Business Partners and HCL Global Solutions Integrators (GSIs).

The HCLSoftware Certified Volt MX 9.5 Foundation 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 and Marketplace components.

Requirements

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

Certification Format

The certification is based on two components

- Hands on assignments - 30% weightage
- Exam - 70% weightage

Certification Format Detailed Explanation

Overall score needed to pass the certification across assignments and exam is 70%.

- Hands-on assignments evaluation:
 - You **MUST** complete all the hands-on assignments as part of Volt MX training.
 - Failing to complete the hands-on assignments that are part of Volt MX training will lead to failing the Foundation certification.
 - This practical evaluation contains a weightage of **30%**. When you complete all the hands-on assignments that are part of Volt MX training you will earn this 30% score of the overall Foundation certification.
 - By completing the first two days of hands-on assignments you will earn the minimum 50% score for this practical evaluation.
 - Trainers will review your hands-on assignments and award the percentage.
- Exam evaluation:
 - You **MUST** pass the exam that will be conducted at the end of Volt MX 9.5 training.
 - This theoretical evaluation contains a weightage of **70%**.
 - Failing to pass this exam will lead to failing the Foundation certification.
 - Exam Format:
 - This is an open book exam.
 - The exam contains all multiple-choice questions. Some questions might have multiple correct answers. You will score marks to a question when all the correct answers for a question are identified.
 - Unanswered questions are scored as incorrect, there is no penalty for guessing.
 - Number of questions on the exam: **40**

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- Total score: **40 marks**
- Passing score: **20 marks**
- Passing Percentage: **50%**
- Time duration for answering the 40 questions: **120 minutes**
- Total exam time duration: **120 minutes**

Exam Results

The HCLSoftware Certified Volt MX 9.5 Foundation Developer (HCL-VMX-FDEV-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.

One MUST score minimum of 50% in both the practical and theoretical sections of this certification to earn the Foundation certification. Failing to score this minimum 50% in any of the practical and theoretical sections will lead to failing the Foundation certification.

- By completing the hands-on assignments for the first two days of Volt MX training, you will earn the minimum 50% score on the practical session of the Foundation certification.
- By scoring minimum 20 marks out of 40 marks on the end of training exam, you will earn the minimum 50% score on the theoretical session of the Foundation certification.

Exam Content

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

Competency Area
Iris
Foundry
UI/UX
Marketplace Components

Competency Area 1: Iris

1.1 Iris Low Code Capabilities

- [Action editor](#)
- [Action editor – Network actions](#)
- [Action editor – External actions](#)
- [Data panel view](#)
- [Data panel capabilities](#)
- [Data panel – configuring dynamic UI properties](#)
- [Form](#)
- [Iris hot reload feature](#)

1.2 Iris SDK

- [Themes library](#)
- [Themes library](#)
- [Animations API](#)
- [Gestures API](#)

- [Alert API](#)

1.3 Iris Widgets & Data Format

- [Map widget and data format](#)
- [CheckboxGroup widget and data format](#)
- [Radiobuttongroup widget and data format](#)
- [Segment widget and methods](#)

1.4 Iris Coding

- [Iris reference architecture dynamic module loading](#)
- [Iris JavaScript coding standards](#)
- [Iris form controller events](#)
- [RequireJS modules in Iris](#)
- [ES6 JavaScript in Iris](#)
- [Volt MX Reference Architecture](#)

1.5 Iris Extensibility

- [Add custom CSS to SPA application](#)
- [Add local HTML content](#)
- [Support for Cordova application](#)
- [Cordova browser widget](#)
- [Native function APIs](#)
- [iOS Native function APIs](#)
- [Android Native function APIs](#)
- [SPA custom widget](#)

Competency Area 2: Foundry

2.1 Foundry

- [Foundry features](#)
- [Identity services](#)
- [Integration services](#)
- [XML integration services](#)
- [JSON integration services](#)
- [Relational Database integration services](#)

2.2 Foundry SDK

- [Foundry SDKs](#)
- [Initializing VoltMX JS client SDK](#)
- [Object services reference APIs](#)

2.3 Foundry Custom Code

- [Java pre/post processors for integration services](#)
- [Java pre/post processors for object services](#)

2.4 Foundry Extensibility

- [Custom data adaptor in Foundry](#)

Competency Area 3: UI/UX

3.1 UI Design

- [Skin Forking](#)

- [Responsive Design](#)
- [Internationalization](#)
- [UI Guidelines](#)
- [Performance and memory management](#)
- [Components](#)

3.2 UX

- [Application lifecycle events](#)
- [Gestures](#)
- [Form events](#)
- [Animation Actions](#)
- [Animations](#)
- [Splash screen](#)
- [Responsive grid layout](#)

Competency Area 4: Marketplace Components

4.1 Overview

- [Basics of marketplace](#)
- [Components on marketplace](#)

Exam Preparation Resources

It is recommended

- 1 To attend the Volt MX instructor led training, either in remote mode or onsite mode.
- 2 To refer to the self-pace Volt MX trainings on HCLSoftwareU.
 - 2.1 [New user orientation](#)
 - 2.2 [Designer orientation training](#)
 - 2.3 [Low-code developer orientation training](#)
 - 2.4 [Integrator orientation training](#)
 - 2.5 [Pro-code orientation training](#)

Exam Registration

Currently this certification exam is available only for HCLSoftware Business Partners and Global Solutions Integrators (GSIs).