

## **UiPath Certified Test Cloud Architect Professional (UiTCAPv1)**

OEM: UiPath • Duration: 5 Days (40 hrs) • Code: UiTCAPv1

### **COURSE MODULES & TOPICS**

#### **Automation Development**

- User Interface (UI) Automation with Modern Design in Studio
- UI Automation Descriptors in Studio
- Activities
- Selectors in Studio Deep Dive
- Debugging in Studio
- Version Control Systems Integration in Studio
- Object Repository
- Orchestrator Assets usage

#### **UiPath Test Cloud Architecture & Admin**

- Differentiate between the most common types of testing methodologies
- Describe UiPath Test Cloud capabilities, components, and integration
- Describe how to integrate with 3rd party ALMs — artifacts synced and capabilities
- Map Test Cloud features with STLC phases
- Describe required licenses: App Test Developer, App Tester, App Test Robot, App Test Platform Unit
- Provision users in the platform and assign licenses & access rights
- Provision services: data fabric, test manager, integration service, AI trust layer config

#### **API Testing**

- How to use and configure HTTP request
- How to use and configure Integration service

#### **UiPath Studio — Testing Panels, Activities, and Templates**

- Differentiate between types of Studio projects (test automation vs process)
- Import, create, publish and convert test cases in UiPath Studio
- Explain the Test Explorer panel, its purpose, components, and execution options
- Analyze test results using the Test Explorer panel
- Describe the Test Automation Framework and its usage
- Describe Test Case Templates — how they work and how to use them

- Describe Execution Templates — how they work and how to use them
- Effectively use verification activities in the testing pack
- Connect UiPath Studio project to Test Manager

## Test Automation Best Practices

- Describe Workflow Analyzer rules for application testing
- Apply testing best practices

## UiPath Studio — Data-driven Testing

- Manage test data to perform data-driven testing for test cases with data variation
- Use activities to generate synthetic random test data
- Create data-driven test cases using Data Fabric items through activities or as a data source
- Describe different test data scenarios

## Orchestrator

- Detail what Orchestrator is and why it is used
- Configuration of machine & user / robot for Test Execution

## UiPath Robot

- Describe what the role of App Test Robot is
- Differentiate between the different ways robots can be connected to UiPath Orchestrator

## UiPath Test Manager

- User and group access management in UiPath Test Manager
- Effectively use custom fields to define project-specific attributes and labels
- Best practices and considerations for importing and exporting projects
- Manual testing: parameters, pre-conditions, and post-conditions for manual test cases
- Differentiate between static and dynamic assignment of test cases to Test Sets
- Explain the process of executing a Test Set
- Differentiate between test execution options and how each type is performed
- Describe pending and mixed execution for test cases
- Describe when and where to use Enforced execution order
- Test execution streaming — visibility into automated test runs
- Create a defect for a failed test case: how-to, integrations, scenarios
- Analyze test results, overwrite results, and export options
- Reporting: propose solutions for low score on critical KPIs via Autopilot
- Export / Import scenarios and artifact objects
- Assign Execution folder and Robot Account to Test Set
- Effectively use Test Schedule to schedule test execution
- Describe selection of automation for test cases: scenarios and screenshots
- Parametrize test cases

- Create a test in Studio Web

## CI/CD Implementation

- Describe the concept of CI/CD and explain the process of implementing CI/CD pipelines
- Scenarios where UiPath command-line interface (CLI) can be used

## Reusable Components

- How to effectively use libraries in test projects
- Using variables in selectors from Object Repository
- How to effectively use object repository in test projects

## Test Automation Types of Projects

- SAP features: Heatmap, Change Impact Analysis, and test generation for SAP transactions, Autopilot, SAP Activities
- Mobile features: activities, mobile device manager, architecture (getting started in mobile testing)
- Performance features: overview, scenarios (spike/stress/endurance), reusing functional automated tests and running at scale
- Using coded test cases: how to use, advantages, interpret screenshots, Autopilot for creating coded tests and coded API tests

## UiPath Agentic Capabilities

- Use Autopilot for Requirements: Evaluate quality
- Use Autopilot: Generate tests from requirements and find obsolete tests
- Import test cases using Autopilot (Excel, etc.)
- Test Cases: Run with Autopilot
- Illustrate the usage of ScreenPlay activity
- Use Search with Autopilot in Test Manager
- Use Generate Report from test execution
- Describe Prompt Library usage
- Use Generate with Autopilot test data variation feature
- Use low-code Test Case generation with Autopilot
- Use Expressions generation with Autopilot
- Self-healing

## Database Validation

- Understand database testing concepts and use cases in application testing
- Execute database queries and validate data using UiPath Studio activities