



Specialized AI Professional

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IMPORTANT ALERT

We are continuously monitoring Internet activities for any signs of cheating or misguided information. We are aware that there are a large number of websites who are **selling fake exams** and charging substantial prices for them. We will take immediate action if we find that the real exams have been compromised. **Please do not spend money or rely on such cheat sites.**

Introduction

UiPath Certified Professional Specialized AI Professional certification evaluates a strong understanding and extensive hands-on experience with UiPath Document Understanding, Communications Mining, and AI Center. Holders of this certification are expected to have the capability to independently build or lead AI-Powered production-level automations.

The Specialized AI Professional Certification focuses on assessing knowledge and skills in constructing and deploying intelligent robots with cognitive capability encompassing AI, ML, and NLP.

The Specialized AI Professional is a valuable credential that represents a high level of expertise, particularly suited for roles such as Advanced Automation Developers, Solution Architects, Automation Architects, and other related positions.

Target Audience

The target audience for the Specialized AI Professional Exam includes:

- automation developers involved with Document Understanding and Communications Mining projects
- Technical roles requiring automation developer expertise with a focus on Document Understanding and Communications Mining, including automation architects, solution designers, solution architects, process automation architects, and more.

Minimally Qualified Candidate

- The Minimally Qualified Candidate (MQC) is an individual with the following:
 - Completed automation projects requiring verification and analysis of complex communications using Communications Mining and processing of unstructured/semi-structured documents involving extensive use of Document Understanding
 - Completed recommended training at UiPath Academy with extensive hands-on experience with Document Understanding and Communications Mining
 - Completed at least one project using Communications Mining

- Technically proficient and possesses the knowledge/skills to work independently

Products

Successful candidates are expected to know how to deploy, upgrade, and maintain the following products:

- UiPath Document Understanding 2024.10
- UiPath Communications Mining 2024.20
- UiPath Studio 2024.10
- UiPath AI Center 2024.10
- UiPath Action Center 2024.10
- UiPath Assistant 2024.10
- UiPath Robots version 2024.10
- UiPath Orchestrator version 2024.10

Exam Domains/Exam Sections

The Specialized AI Professional Exam contains the following exam sections:

- UiPath Document Understanding
- UiPath Document Understanding Framework
- UiPath Studio - Document Understanding Activities
- DU Specific UiPath Implementation Methodology
- UiPath AI Center
- UiPath Document Understanding Process Template
- UiPath Communications Mining - Model Training
- UiPath Communications Mining - Taxonomy Design
- UiPath Communications Mining – Setup
- UiPath Communications Mining – Discover
- UiPath Communications Mining – Explore
- UiPath Communications Mining - Refine and Maintain
- Analytics & Monitoring
- Automation and Model Management
- Updates from product version 2023.xx and later
- Automation Developer Topics
- Advanced Developer Topics

Exam Topics

Tasks performed by the Minimally Qualified Candidate:

UiPath Document Understanding

- Utilize the Document Understanding API.
- Utilize the DocPath LLM.

- Describe the AI Trust Layer.
- Describe the Cross Tennant functionalities.

UiPath Document Understanding Framework

- Build POCs and automation components for DU template (but not a robust and complete DU process)
- Utilize the DU Process template to build a complete automation solution.
- Utilize the business rules to validate the extracted data.
- Use Action Center to incorporate human in the loop for end-to-end processes.

UiPath Studio - Document Understanding Activities

- Explain what a Document Object Model is in the context of Document Understanding.
- Select an appropriate OCR engine for your digitization use case.
- Analyze what kind of classifier/extractor is the most suitable for the automation project.
- Use UiPath Orchestrator or Action Apps to configure human validation steps.
- Train the Classifiers and Extractors used to improve their performance.
- Build the first model and test it out for labeling and types.
- Evaluate the model.
- Utilize the following Taxonomy features: Validator notes and business rules.
- Utilize the Document Object Model in the context of Document Understanding.
- Explain building prompts and the limitations for the Generative Classifier and the Generative Extractor.

UiPath Implementation Methodology - Document Understanding specific

- Gather and analyze data about the documents in scope (document types, fields extracted, pages per documents).
- Gather and analyze data about languages in scope and OCR engine of choice.
- Integrate exception handling within the automation solution.

UiPath AI Center

- Distinguish between AI,ML,NLP,DL,Computer vision.
- Distinguish between supervised, unsupervised and reinforcement learning.
- Describe how AI Center works.
- List the user personas who can access and use AI Center.
- List the types of ML models in AI Center.
- Describe the various ways to deploy and install AI Center.
- List the example of out-of-the box ML Packages application.
- Define the AI Center User Interface elements.
- Manage projects in AI Center (Create, edit, delete).
- Manage datasets in AI Center (Create, upload, edit, delete, make the dataset public).
- Manage data labels in AI Center (Create a data labeling instance, configure).
- Build ML Packages in AI Center.
- Manage ML Packages in AI Center (Upload ML Package, import, view ML Package details, version control of ML Packages).
- Use Out-of-the-box ML Packages from AI Center.
- Manage the Pipelines available in AI Center (Create, schedule pipelines, edit scheduled pipelines, remove pipelines).

- Describe how to retrain a model by sending feedback from the process to the model.
- Create ML skills.
- Update ML Skills in new ML Packages (Upload ML Package, import, view ML Package details, version control of ML Packages).
- Describe the steps to make an ML skill public.
- Describe the types of events captured in the ML logs.

UiPath Communications Mining - Model Training

- Describe the golden rules of label training.
- Describe the golden rules for general fields training.
- Using the train tab
- Generative annotation (cluster suggestions, assisted labelling)
- Generative extraction (configuring extractions, generating extractions, training extractions, best practices, improving extraction performance)
- Describe the best practices of label annotation.
- Describe the best practices for general fields annotations.
- Describe the best practices for extraction fields annotations.

UiPath Communications Mining - Taxonomy Design

- Create a label taxonomy structure according to best practices.
- Differentiate between analytics and automation taxonomies.
- Provide examples of typical groups of labels (process/request types, quality of service / failure demand etc.).
- Distinguish between different types of general fields (pre-trained, trained from scratch, trainable, non-trainable).
- Describe Taxonomy Import Options
- Quality of Service, Tone and Sentiment

UiPath Communications Mining - Setup

- Describe the three main components of data (data sources, datasets, projects) and how to manage them.
- Enable, update, or disable general fields in a dataset in UiPath Communications Mining.
- Import a taxonomy via the Settings or Train pages in UiPath Communications Mining.
- Distinguish between tone analysis and label sentiment.
- Role-based access control
- Data Architecture and Permissions.

UiPath Communications Mining - Discover

- Label clusters considering key best practices.
- Describe what the Search functionality in Discover is and when it is recommended to use it.
- Explain the risks associated with using too much Search to train the model vs balancing out with Shuffle and Teach Label.
- Define what the Discover phase of the Communications Mining process, how it works, and why it's important.

- Describe what clustering labels are and why they are important.
- Describe the two main steps of the Discover phase
- Generative Annotation functionality in Discover.

UiPath Communications Mining - Explore

- Explain what label and general fields predictions are, how they work, and how to use them.
- Distinguish between label predictions and label suggestions.
- Differentiate between when it makes sense to use Shuffle, Teach Label, or Low Confidence to train the model in the 'Explore' phase.
- Use Shuffle, Teach Label, or Low Confidence in the 'Explore' phase according to best practices.
- Explain when it is recommended to use Teach general fields to continue label training at the end of the Explore phase.
- Prune and reorganize a taxonomy by editing, renaming, merging and deleting labels.
- Prune and reorganize a taxonomy by modifying or deleting an general fields.
- Define what Explore phase of the Communications Mining process, how it works, and why it is important.
- Describe the factors that indicate sufficient labeling training has been performed in the Explore phase.
- Generative Annotation functionality in Explore
- Generative extraction.

UiPath Communications Mining - Refine and Maintain

- Define why the 'Refine' phase of the Communications Mining process is important.
- Explain precision and recall metrics, how they impact the performance of machine learning models.
- Describe what Model Rating assesses, and what factors it takes into consideration (Performance, Coverage, Balance).
- Analyze All Labels and suggest typical solutions to improve the score (understand MAP).
- Analyze Underperforming Labels and suggest typical solutions to improve the score.
- Analyze Coverage to check how well covered the whole dataset is and suggest typical solutions to improve the score.
- Analyze Balance to check for a balanced representation of the whole dataset, and suggest typical solutions to improve the score.
- Distinguish between the three label performance indicators (blue, amber, red).
- List potential reasons that can lead to low label performance.
- Address bias labelling by continuing to train the model using Teach Label in the 'Refine' phase of the Communications Mining process.
- Continue to train the model using Check Label and Missed Label in the 'Refine' phase of the Communications Mining process.
- Name the recommended Model Ratings for automation and analytics use cases.
- List indicators of when model training could be finished at the end of the UiPath Communications Mining process.
- Analyze what general fields scores are, how they are calculated, and typical solutions to improve them (Teach general fields, Check general fields, Missed general fields).
- List the two key factors that can be erode a model's performance (brand new labels are added, but not trained, or concept drift occurs.)
- Explain how to add new labels to an existing taxonomy.

- Explain how models should be maintained in production
- Use recommended next best actions in the Validation page to improve a training model.
- Describe what Mean Average Precision (MAP), why it is useful, and how to view it in the 'Validation' page.
- Analyze Metrics in the Validation page to check average label performance statistics.
- Use the 'general fields' tab to analyze validation statistics of the performance of all the general fields enabled in the dataset.
- Use the 'extraction ' tab to analyze validation statistics of the performance of all the extraction fields enabled in the dataset.

Analytics and Monitoring

- Use the 'Reports' pages to create customized and dynamic dashboards.
- Use the 'Label Summary' tab to analyze charts and high-level summary statistics.
- Use the 'Trends' tab to analyze trends for verbatim volume, label volume, sentiment over a given time period, etc.
- Use the 'Segments' tab to analyze label volumes versus verbatim metadata fields, e.g. Sender Domain.
- Use the 'Comparison' tab to conduct A/B tests and cohort comparisons between different cohorts of the dataset.
- Use the 'Threads' tab to analyze conversations and their characteristics.
- Use 'Quality of Service' and 'Tone Analysis' to monitor channel performance.
- Use 'Alert Center' to configure and track alerts and issues.

Automation and Model Management

- Apply CI/CD best practices for model management.
- View, create and modify streams.
- Choosing the right threshold for streams.
- Pinning model versions for productions and staging.
- Describe the Dispatcher Framework
- Communications Mining Studio Activities
- Communications Mining Dispatcher Framework.
- Quotas & Deprecated Models pages.
- Explain how UiPath Communications Mining and RPA can work together

Updates from product version 2023.xx and later

- Use the Document Manager updates in your DU process.
- Define and apply business rules at field levels in Taxonomy Manager.
- Use the DU Cloud APIs.
- Allocate roles using the new Role-based access control in Document Understanding.
- Deprecations
- Dataset import from Document Manager to Modern Projects
- Project Performance dashboard
- Field configuration experience
- Classification Validation for Cross-platform Activities
- Validator Notes

- Extended OCR Engine & Arabic language support in UiPath DU OCR
- Generative Extraction, Classification & Validation capabilities in APIs
- FedRAMP
- Get attachments via Exchange integration
- Attachment property filters
- Notification service integration for CM integrations & alerts
- Assignable user roles
- Communications Mining Dispatcher Framework
- New dataset creation flow
- Quotas & Deprecated Models pages

Advanced Developer Topics

- Advanced Developer Topic

Automation Developer Topics

- SharePoint integration, file manipulation, Microsoft 365
- Automation Developer Generic

Environments, Applications, and/or Tools

The Minimally Qualified Candidate (MQC) should be comfortable working with the following environments, applications, and/or tools:

- A general familiarity with SDLC
- Microsoft Excel
- Microsoft Outlook
- Working experience with a Code Editor such as PyCharm/Visual Studio Code/Notepad or any other
- Browsers (Edge, Chrome, etc.)
- Web page elements (e.g., HTML)
- Version Control
- UiPath Studio and UiPath Studio – Robotic Enterprise Framework
- UiPath Studio – Document Understanding Template
- UiPath Communication Mining
- AI Center
- Action Center
- UiPath Orchestrator
- UiPath Robots

Recommended Training and Hands-on Experience

The following represents the recommended learning path the Minimally Qualified Candidate (MQC) can take to prepare for the UiPath Certified Professional Specialized AI Professional Exam:

Training Options:

-  Academy [Automation Developer - Specialized AI Training](#)
- AND -
- <https://docs.uipath.com/>
- UiPath Product Documentation - [Document Understanding \(uipath.com\)](#) for Automation Suite
- UiPath Product Documentation - [Activities \(uipath.com\)](#)
- UiPath Product Documentation - [AI Center \(uipath.com\)](#) for Automation Cloud
- [Implementation of a Project - Methodology](#)
- OR -
- Other training or self-learning sources that cover the subjects listed in this document to prepare for the exam.

Hands-on Experience:

1. Involved in end-to-end process development
2. Performing UiPath code reviews
3. Providing project support; i.e., Hypercare
4. Providing maintenance and support
5. Creating and reviewing project specifications
6. Debugging and fixing production bugs
7. Adding features to existing Document Understanding processes

Recommended Exam Preparation

In addition to the recommended learning path, the practice test is an additional study tool to prepare for the UiPath Specialized AI Professional Exam.

- [UiPath Specialized AI Professional Practice Test](#)

Exam Details

Certification Track	UiPath Certified Professional - Developer / Specialized AI Track
Credential	UiPath Certified Professional Specialized AI Professional
Valid Period	3 years
Exam Number and Exam Title	UiPath-SALv1 - UiPath Specialized AI Professional Exam
Pre-requisite Exam(s) and/or Certification(s)	None
Exam Duration	180 minutes
Passing Score	70%
Exam Fee	\$300

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