



# Create document intelligence solutions with Azure AI Document Intelligence

## Course AI-3002: 1 day; Intermediate; Instructor-Led

### Introduction

In this learning path, discover how Azure AI Document Intelligence solutions can enable you to capture data from typed or hand-written forms. Learn how to build a solution for your custom form types and integrate that solution into an Azure Cognitive Search pipeline. You'll learn how to:

- Design a solution that analyzes your business forms by using Azure AI Document Intelligence.
- Create a solution that analyzes common documents by using Document Intelligence.
- Create a solution that analyses different custom form types by using Document Intelligence.
- Include an Azure AI Document Intelligence service as a custom skill in an Azure AI Search pipeline.

### Course Outline

#### Module 1: Plan an Azure AI Document Intelligence solution

Learn how to use Azure AI Document Intelligence to build solutions that analyze forms and output data for storage or further processing.

In this module, you will learn to:

- Describe the components of an Azure AI Document Intelligence solution.
- Create and connect to Azure AI Document Intelligence resources in Azure.
- Choose whether to use a prebuilt, custom, or composed model.

#### Prerequisites

- Basic understanding of Azure AI Document Intelligence

#### Lessons

- Understand AI Document Intelligence
- Plan Azure AI Document Intelligence resources
- Choose a model type

#### Module 2: Use prebuilt Document intelligence models

Learn what data you can analyze by choosing prebuilt Forms Analyzer models and how to deploy these models in a Document intelligence solution.

In this module, you will learn to:

- Identify business problems that you can solve by using prebuilt models in Forms Analyzer.
- Analyze forms by using the General Document, Read, and Layout models.
- Analyze forms by using financial, ID, and tax prebuilt models.

#### Prerequisites

- Basic understanding of Document intelligence

#### Lessons

- Understand prebuilt models
- Use the General Document, Read, and Layout models
- Use financial, ID, and tax models
- Exercise - Analyze a document using Azure AI Document Intelligence

#### Module 3: Extract data from forms with Azure Document intelligence

Document intelligence uses machine learning technology to identify and extract key-value pairs and table data from

form documents with accuracy, at scale. This module teaches you how to use the Azure Document intelligence cognitive service.

In this module, you will learn to:

- Identify how Document intelligence's layout service, prebuilt models, and custom models can automate processes.
- Use Document intelligence's capabilities with SDKs, REST API, and Document Intelligence Studio.
- Develop and test custom models.

#### **Prerequisites**

To complete this module, you'll need:

- An active Azure account
- Knowledge of Azure portal navigation
- Knowledge of at least one programming language (C#, Python)

#### **Lessons**

- What is Azure Document Intelligence?
- Get started with Azure Document Intelligence
- Train custom models
- Use Azure Document Intelligence models
- Use the Azure Document Intelligence Studio
- Exercise - Extract data from custom forms

#### **Module 4: Create a composed Document intelligence model**

Learn how to assemble custom models into composed solutions that can analyze different types of your own documents.

In this module, you will learn to:

- Describe business problems that you would use custom models and composed models to solve.
- Train a custom model to obtain data from forms with unusual structures.
- Create a composed model that can analyze forms in multiple formats.

#### **Prerequisites**

- Basic understanding of Azure AI Document Intelligence

#### **Lessons**

- Understand composed models
- Assemble composed models
- Exercise: Create a composed model

#### **Module 5: Build a Document intelligence custom skill for Azure AI search**

Learn how to use an Azure Document Intelligence solution as a custom skill to enrich content in an Azure AI Search pipeline.

In this module, you will learn to:

- Describe how a custom skill can enrich content passed through an Azure AI Search pipeline.
- Build a custom skill that calls an Azure Forms Analyzer solution to obtain data from forms.

#### **Prerequisites**

- Basic understanding of Azure AI Search

#### **Lessons**

- Understand Azure AI Search enrichment pipelines
- Build an Azure AI Document Intelligence custom skill
- Exercise: Build and deploy an Azure AI Document Intelligence custom skill