

# AI-100T01-A: Designing and Implementing an Azure AI Solution

## Course Outline

### Module 1: Introducing Azure Cognitive Services

The student will learn about the available Cognitive Services on Microsoft Azure and their role in architecting AI solutions.

#### Lessons

- Overview of Azure Cognitive Services
- Creating a Cognitive Service on the Azure Portal
- Access and Test a Cognitive Service

### Module 2: Creating Bots

The student will learn about the Microsoft Bot Framework and Bot Services.

#### Lessons

- Introducing the Bot Service
- Creating a Basic Chat Bot
- Testing with the Bot Emulator

### Module 3: Enhancing Bots with QnA Maker

The student will learn about the QnA Maker and how to integrate Bots and QnA Maker to build up a useful knowledge base for user interactions.

#### Lessons

- Introducing QnA Maker
- Implement a Knowledge Base with QnA Maker
- Integrate QnA with a Bot

### Module 4: Learn How to Create Language Understanding Functionality with LUIS

The student will learn about LUIS and how to create intents and utterances to support a natural language processing solution.

#### Lessons

- Introducing Language Understanding
- Create a new LUIS Service
- Build Language Understanding with Intents and Utterances

## **Module 5: Enhancing Your Bots with LUIS**

The student will learn about integrating LUIS with a Bot to better understand the users' intentions when interacting with the Bot.

### **Lessons**

- Overview of language understanding for AI applications
- Integrate LUIS and Bot to create an AI-based solution

## **Module 6: Integrate Cognitive Services with Bots and Agents**

The student will learn about integrating Bots and Agents with Azure Cognitive Services for advanced features such as sentiment analysis, image and text analysis, and OCR and object detection.

### **Lessons**

- Understand Cognitive Services for Bot Interactions
- Perform Sentiment Analysis for your Bot with Text Analytics
- Detect Language in a Bot with the Language Cognitive Services
- Integrate Computer Vision with Bots