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**MICROSOFT**

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

## **Course Overview**

Phoenix TS' 3-day instructor-led Microsoft Designing and Implementing an Azure AI Solution training and certification boot camp in Washington, DC Metro, Tysons Corner, VA, Columbia, MD or Live Online teaches you the necessary knowledge for designing Azure AI solution by building a customer support chat Bot using artificial intelligence from the Microsoft Azure platform including language understanding and pre-built AI functionality in the Azure Cognitive Services.

## **What You'll Learn**

- Creating Bots
- Enhancing Bots with QnA Maker
- Learn How to Create Language Understanding Functionality with LUIS
- Enhancing Your Bots with LUIS
- Integrate Cognitive Services with Bots and Agents

## **Who Should Attend**

This course is aimed at Cloud Solution Architects, Azure artificial intelligence designers, and AI developers.

## **Prerequisites**

Before attending this course, students must have:

- Azure Fundamentals
- Understanding of Azure storage technologies
- C# Knowledge

# Exam Information

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

**Note:** The content of this exam was updated on May 20, 2020.

Analyze solution requirements	25-30%
Design AI solutions	40-45%
Implement and monitor AI solutions	25-30%

You can purchase the exam voucher separately through Phoenix TS. Phoenix TS is an authorized testing center for Pearson VUE and Prometric websites. Register for exams by calling us or visiting the Pearson VUE and Prometric websites.

## 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 Language Understanding with Intents and Utterances (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 LUIS

## 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

Starting at **\$1,945**

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