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

Course Name	**Designing and Implementing an Azure AI Solution**
Course Code	**AI-100T01-A**
Course Duration	3 Days
Course Structure	Instructor-Led
Course Overview	Gain 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.
Audience Profile	This course is aimed at Cloud Solution Architects, Azure artificial intelligence designers, and AI developers.
Course Prerequisites	Successful Azure AI Engineers start this role with professional experience with cloud technologies, and experience with software development kits. Specifically: • Implementing solutions in C# or Python • Application development in the cloud • Understanding Azure storage technologies
Course Outcome	After completing this course, students will be able to: • Create a Cognitive Service on the Azure Portal • Create a Basic Chat Bot • Integrate Bots and QnA Maker to build up a useful knowledge base for user interactions. • Create Language Understanding Functionality with LUIS (Language Understanding with Intents and Utterances)

Assessment/Evaluation	This course will prepare delegates to take Exam: AI-100 Designing and Implementing an Azure AI Solution Successfully passing this exam will result in the attainment of Designing and Implementing an Azure AI Solution and Certificate of Attendance issued by IT-IQ Botswana

Course Details	
Topic	**Topic 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 **Topic 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 **Topic 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

	Topic 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 **Topic 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 **Topic 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