AI-102T00 Develop AI solutions in Azure

Category: AI, Data & Analytics | **Vendor:** Microsoft Technical

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Certified: Azure AI Engineer Associate
Related Exam:	AI-102

Course Overview

AI-102: Develop AI solutions in Azure is intended for software developers wanting to build AI infused applications that leverage Azure AI Foundry and other Azure AI services. Topics in this course include developing generative AI apps, building AI agents, and solutions that implement computer vision and information extraction.

About This Course

AI-102: Develop AI solutions in Azure is intended for software developers wanting to build AI infused applications that leverage Azure AI Foundry and other Azure AI services. Topics in this course include developing generative AI apps, building AI agents, and solutions that implement computer vision and information extraction.

Who Should Attend

This course was designed for software engineers concerned with building, managing and deploying AI solutions that leverage Azure AI Foundry and other Azure AI services. They are familiar with C# or Python and have knowledge on using REST-based APIs and SDKs to build generative AI, computer vision, language analysis, and information extraction solutions on Azure.

Prerequisites & Entry Requirements

General Prerequisites:

Before attending this course, students must have:

- Knowledge of Microsoft Azure and ability to navigate the Azure portal
- Knowledge of either C# or Python
- Familiarity with JSON and REST programming semantics

Recommended course prerequisites

- AI-900T00: Microsoft Azure AI Fundamentals course

Learning Outcomes

Upon successful completion of this course, participants will be able to:

AI-102 Course ObjectivesDescribe considerations for AI-enabled application developmentCreate, configure, deploy, and secure Azure Cognitive ServicesDevelop applications that analyze textDevelop speech-enabled applicationsCreate applications with natural language understanding capabilitiesCreate QnA applicationsCreate conversational solutions with botsUse computer vision services to analyze images and videosCreate custom computer vision modelsDevelop applications that detect, analyze, and recognize facesDevelop applications that read and process text in images and documentsCreate intelligent search solutions for knowledge mining., AI-102 Course ObjectivesDescribe considerations for AI-enabled application developmentCreate, configure, deploy, and secure Azure Cognitive ServicesDevelop applications that analyze textDevelop speech-enabled applicationsCreate applications with natural language understanding capabilitiesCreate QnA applicationsCreate conversational solutions with botsUse computer vision services to analyze images and videosCreate custom computer vision modelsDevelop applications that detect, analyze, and recognize facesDevelop applications that read and process text in images and documentsCreate intelligent search solutions for knowledge mining., AI-102 Course ObjectivesDescribe considerations for AI-enabled application developmentCreate, configure, deploy, and secure Azure Cognitive ServicesDevelop applications that analyze textDevelop speech-enabled applicationsCreate applications with natural language understanding capabilitiesCreate QnA applicationsCreate conversational solutions with botsUse computer vision services to analyze images and videosCreate custom computer vision modelsDevelop applications that detect, analyze, and recognize facesDevelop applications that read and process text in images and documentsCreate intelligent search solutions for knowledge mining., AI-102 Course ObjectivesDescribe considerations for AI-enabled application developmentCreate, configure, deploy, and secure Azure Cognitive ServicesDevelop applications that analyze textDevelop speech-enabled applicationsCreate applications with natural language understanding capabilitiesCreate QnA applicationsCreate conversational solutions with botsUse computer vision services to analyze images and videosCreate custom computer vision modelsDevelop applications that detect, analyze, and recognize facesDevelop applications that read and process text in images and documentsCreate intelligent search solutions for knowledge mining., AI-102 Course ObjectivesDescribe considerations for AI-enabled application developmentCreate, configure, deploy, and secure Azure Cognitive ServicesDevelop applications that analyze textDevelop speech-enabled applicationsCreate applications with natural language understanding capabilitiesCreate QnA applicationsCreate conversational solutions with botsUse computer vision services to analyze images and videosCreate custom computer vision modelsDevelop applications that detect, analyze, and recognize facesDevelop applications that read and process text in images and documentsCreate intelligent search solutions for knowledge mining., AI-102 Course ObjectivesDescribe considerations for AI-enabled application developmentCreate, configure, deploy, and secure Azure Cognitive ServicesDevelop applications that analyze textDevelop speech-enabled applicationsCreate applications with natural language understanding capabilitiesCreate QnA applicationsCreate conversational solutions with botsUse computer vision services to analyze images and videosCreate

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Detailed Course Outline

1 - Plan and prepare to develop AI solutions on Azure

- What is AI?
- Azure AI services
- Azure AI Foundry
- Developer tools and SDKs
- Responsible AI
- Module assessment

2 - Choose and deploy models from the model catalog in Azure AI Foundry portal

- Explore the model catalog
- Deploy a model to an endpoint
- Optimize model performance
- Module assessment

3 - Develop an AI app with the Azure AI Foundry SDK

- What is the Azure AI Foundry SDK?
- Work with project connections
- Create a chat client
- Module assessment

4 - Get started with prompt flow to develop language model apps in the Azure AI Foundry

- Understand the development lifecycle of a large language model (LLM) app
- Understand core components and explore flow types
- Explore connections and runtimes
- Explore variants and monitoring options
- Module assessment

5 - Develop a RAG-based solution with your own data using Azure AI Foundry

- Understand how to ground your language model
- Make your data searchable
- Create a RAG-based client application
- Implement RAG in a prompt flow
- Module assessment

6 - Fine-tune a language model with Azure AI Foundry

- Understand when to fine-tune a language model
- Prepare your data to fine-tune a chat completion model
- Explore fine-tuning language models in Azure AI Foundry portal
- Module assessment

7 - Implement a responsible generative AI solution in Azure AI Foundry

- Plan a responsible generative AI solution
- Map potential harms
- Measure potential harms
- Mitigate potential harms
- Manage a responsible generative AI solution
- Module assessment

8 - Evaluate generative AI performance in Azure AI Foundry portal

- Assess the model performance
- Manually evaluate the performance of a model
- Automated evaluations
- Module assessment

9 - Get started with AI agent development on Azure

- What are AI agents?
- Options for agent development
- Azure AI Foundry Agent Service
- Module assessment

10 - Develop an AI agent with Azure AI Foundry Agent Service

- What is an AI agent
- How to use Azure AI Foundry Agent Service
- Develop agents with the Azure AI Foundry Agent Service
- Module assessment

11 - Integrate custom tools into your agent

- Why use custom tools
- Options for implementing custom tools
- How to integrate custom tools
- Module assessment

12 - Develop an AI agent with Semantic Kernel

- Understand Semantic Kernel AI agents
- Create an Azure AI agent with Semantic Kernel
- Add plugins to Azure AI agent

13 - Orchestrate a multi-agent solution using Semantic Kernel

- Understand the Semantic Kernel Agent Framework
- Create an agent group chat
- Design an agent selection strategy
- Define a chat termination strategy

14 - Develop a multi-agent solution with Azure AI Foundry Agent Service

- Understand connected agents
- Design a multi-agent solution with connected agents
- Module assessment

15 - Integrate MCP Tools with Azure AI Agents

- Understand MCP tool discovery
- Integrate agent tools using an MCP server and client
- Module assessment

16 - Analyze text with Azure AI Language

- Provision an Azure AI Language resource
- Detect language
- Extract key phrases
- Analyze sentiment
- Extract entities
- Extract linked entities
- Module assessment

17 - Create question answering solutions with Azure AI Language

- Understand question answering
- Compare question answering to Azure AI Language understanding
- Create a knowledge base
- Implement multi-turn conversation
- Test and publish a knowledge base
- Use a knowledge base
- Improve question answering performance
- Module assessment

18 - Build a conversational language understanding model

- Understand prebuilt capabilities of the Azure AI Language service
- Understand resources for building a conversational language understanding model
- Define intents, utterances, and entities
- Use patterns to differentiate similar utterances
- Use pre-built entity components
- Train, test, publish, and review a conversational language understanding model
- Module assessment

19 - Create a custom text classification solution

- Understand types of classification projects
- Understand how to build text classification projects
- Module assessment

20 - Custom named entity recognition

- Understand custom named entity recognition
- Label your data
- Train and evaluate your model
- Module assessment

21 - Translate text with Azure AI Translator service

- Provision an Azure AI Translator resource
- Specify translation options
- Define custom translations
- Module assessment

22 - Create speech-enabled apps with Azure AI services

- Provision an Azure resource for speech
- Use the Azure AI Speech to Text API
- Use the text to speech API
- Configure audio format and voices
- Use Speech Synthesis Markup Language
- Module assessment

23 - Translate speech with the Azure AI Speech service

- Provision an Azure resource for speech translation
- Translate speech to text
- Synthesize translations
- Module assessment

24 - Develop an audio-enabled generative AI application

- Deploy a multimodal model
- Develop an audio-based chat app
- Module assessment

25 - Analyze images

- Provision an Azure AI Vision resource
- Analyze an image
- Module assessment

26 - Read text in images

- Explore Azure AI options for reading text
- Read text with Azure AI Vision Image Analysis
- Module assessment

27 - Detect, analyze, and recognize faces

- Plan a face detection, analysis, or recognition solution
- Detect and analyze faces
- Verify and identify faces
- Responsible AI considerations for face-based solutions
- Module assessment

28 - Classify images

- Azure AI Custom Vision
- Train an image classification model
- Create an image classification client application
- Module assessment

29 - Detect objects in images

- Use Azure AI Custom Vision for object detection
- Train an object detector
- Develop an object detection client application
- Module assessment

30 - Analyze video

- Understand Azure Video Indexer capabilities
- Extract custom insights
- Use Video Analyzer widgets and APIs
- Module assessment

31 - Develop a vision-enabled generative AI application

- Deploy a multimodal model
- Develop a vision-based chat app
- Module assessment

32 - Generate images with AI

- What are image-generation models?
- Explore image-generation models in Azure AI Foundry portal
- Create a client application that uses an image generation model
- Module assessment

33 - Create a multimodal analysis solution with Azure AI Content Understanding

- What is Azure AI Content Understanding?
- Create a Content Understanding analyzer
- Use the Content Understanding REST API
- Module assessment

34 - Create an Azure AI Content Understanding client application

- Prepare to use the AI Content Understanding REST API
- Create a Content Understanding analyzer
- Analyze content
- Module assessment

35 - Use prebuilt Document intelligence models

- Understand prebuilt models
- Use the General Document, Read, and Layout models
- Use financial, ID, and tax models
- Module assessment

36 - Extract data from forms with Azure Document intelligence

- 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
- Module assessment

37 - Create a knowledge mining solution with Azure AI Search

- What is Azure AI Search?
- Extract data with an indexer
- Enrich extracted data with AI skills
- Search an index
- Persist extracted information in a knowledge store
- Module assessment

, Develop generative AI apps in Azure, Get started with Azure AI Services, Develop AI agents on Azure, Develop computer vision solutions in Azure, Develop natural language solutions in Azure, Develop AI information extraction solutions in Azure, Translate text with Azure AI Translator service, Create speech-enabled apps with Azure AI services, Translate speech with the Azure AI Speech service, Build a conversational language understanding model, Develop an app with Azure AI Language, Build a question-answering solution, Create a Bot with the Bot Framework Composer, Create a bot with the Bot Framework SDK, Create a knowledge store with Azure Cognitive Search, Extract data from forms with Azure Document Intelligence, Create an Azure Cognitive Search Solution, Create a custom skill for Azure Cognitive Search, Read Text in Images and Documents with the Azure AI Vision Service, Detect, and recognize faces, Classify images, Detect objects in images, Analyze images, Analyze video, LAB Outline

□□ Certification Path

Microsoft Certified: Azure AI Engineer Associate

Exam: AI-102

Frequently Asked Questions

Q: What delivery options are available for AI-102T00 Develop AI solutions in Azure?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The AI-102T00 Develop AI solutions in Azure course helps prepare you for the Microsoft Certified: Azure AI Engineer Associate certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI-102 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 5-day AI-102T00 Develop AI solutions in Azure course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI-102T00 Develop AI solutions in Azure training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI-102T00 Develop AI solutions in Azure?

Yes, we provide corporate training, dedicated training, and closed classes for AI-102T00 Develop AI solutions in Azure. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI-102T00: Develop AI solutions in Azure, Microsoft, vILT, AI-102T00

Q: Why choose Nexus Human for AI-102T00 Develop AI solutions in Azure?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
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- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AI-102T00 Develop AI solutions in Azure training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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