AI-3019 Build AI Apps with Azure Database for PostgreSQL

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

Duration: 1.00 hours (1 days) **0.8 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Applied Skills: Build AI apps with Azure Database for PostgreSQL
Related Exam:	AI-3019

Course Overview

This learning path explores how the Azure AI and Azure Machine Learning Services integrations provided by the Azure AI extension for Azure Database for PostgreSQL - Flexible Server can enable you to build AI-powered apps.

About This Course

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Prerequisites & Entry Requirements

General Prerequisites:

Before starting this module, you should have experience working with PostgreSQL databases, writing SQL queries, and a general understanding of AI and ML concepts.

Learning Outcomes

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

Course ObjectivesGet started with generative AI in Azure Database for PostgreSQLEnable semantic search in Azure Database for PostgreSQLSummarize data with Azure AI Services and Azure database for PostgreSQLPerform sentiment analysis and opinion mining with Azure Database for PostgreSQLExtract insights using Azure AI Language and Azure Database for PostgreSQLTranslate Text with Azure AI Translator and Azure Database for PostgreSQLUse Azure Machine Learning for inferencing from Azure Database for PostgreSQL, Course ObjectivesGet started with generative AI in Azure Database for PostgreSQLEnable semantic search in Azure Database for PostgreSQLSummarize data with Azure AI Services and Azure database for PostgreSQLPerform sentiment analysis and opinion mining with Azure Database for PostgreSQLExtract insights using Azure AI Language and Azure Database for PostgreSQLTranslate Text with Azure AI Translator and Azure Database for PostgreSQLUse Azure Machine Learning for inferencing from Azure Database for PostgreSQL, Course ObjectivesGet started with generative AI in Azure Database for PostgreSQLEnable semantic search in Azure Database for PostgreSQLSummarize data with Azure AI Services and Azure database for PostgreSQLPerform sentiment analysis and opinion mining with Azure Database for PostgreSQLExtract insights using Azure AI Language and Azure Database for PostgreSQLTranslate Text with Azure AI Translator and Azure Database for PostgreSQLUse Azure Machine Learning for inferencing from Azure Database for PostgreSQL, Course ObjectivesGet started with generative AI in Azure Database for PostgreSQLEnable semantic search in Azure Database for PostgreSQLSummarize data with Azure AI Services and Azure database for PostgreSQLPerform sentiment analysis and opinion mining with Azure Database for PostgreSQLExtract insights using Azure AI Language and Azure Database for PostgreSQLTranslate Text with Azure AI Translator and Azure Database for PostgreSQLUse Azure Machine Learning for inferencing from Azure Database for PostgreSQL, Course ObjectivesGet started with generative AI in Azure Database for PostgreSQLEnable semantic search in Azure Database for PostgreSQLSummarize data with Azure AI Services and Azure database for PostgreSQLPerform sentiment analysis and opinion mining with Azure Database for PostgreSQLExtract insights using Azure AI Language and Azure Database for PostgreSQLTranslate Text with Azure AI Translator and Azure Database for PostgreSQLUse Azure Machine Learning for inferencing from Azure Database for PostgreSQL, Course ObjectivesGet started with generative AI in Azure Database for PostgreSQLEnable semantic search in Azure Database for PostgreSQLSummarize data with Azure AI Services and Azure database for PostgreSQLPerform sentiment analysis and opinion mining with Azure Database for PostgreSQLExtract insights using Azure AI Language and Azure Database for PostgreSQLTranslate Text with Azure AI Translator and Azure Database for PostgreSQLUse Azure Machine Learning for inferencing from Azure Database for PostgreSQL, Course ObjectivesGet started with generative AI in Azure Database for PostgreSQLEnable semantic search in Azure Database for PostgreSQLSummarize data with Azure AI Services and Azure database for PostgreSQLPerform sentiment analysis and opinion mining with Azure Database for PostgreSQLExtract insights using Azure AI Language and Azure Database for PostgreSQLTranslate Text with Azure AI Translator and Azure Database for

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Detailed Course Outline

1 - Get started with generative AI in Azure Database for PostgreSQL

- Understand generative AI language models
- Describe the Azure AI extension
- Explore the Azure OpenAI schema
- Review the Azure Cognitive schema
- Explore semantic operators
- Examine the Azure Machine Learning schema
- Module assessment

2 - Enable semantic search in Azure Database for PostgreSQL

- Understand semantic search
- Store vectors in Azure Database for PostgreSQL
- Create embeddings with the Azure AI extension
- Explore semantic search use cases
- Module assessment

3 - Integrate AI Services to enrich your applications with intelligent features in Azure Database for PostgreSQL

- Summarize data with Azure AI Services and Azure Database for PostgreSQL
- Perform sentiment analysis and opinion mining in Azure Database for PostgreSQL
- Extract insights using Azure Language and Azure Database for PostgreSQL
- Translate text with Azure Translator and Azure Database for PostgreSQL
- Use Azure Machine Learning for inference from Azure Database for PostgreSQL
- Module assessment

4 - Build RAG applications with Azure Database for PostgreSQL

- Understand RAG pattern with Azure Database for PostgreSQL
- Explore information retrieval challenges - scale and accuracy
- Enhance scale with vector indexes
- Build RAG Applications with Azure Database for PostgreSQL and Python
- Improve accuracy with advanced RAG architectures
- Explore GraphRAG with Azure Database for PostgreSQL
- Module assessment

5 - Implement generative AI agents with Azure Database for PostgreSQL

- Understand AI agents with Azure Database for PostgreSQL
- Apply information retrieval for agents
- Evaluate agentic frameworks for integration with PostgreSQL
- Implement AI agents with Foundry Agent Service
- Integrate AI agents with MCP and PostgreSQL
- Module assessment

6 - Develop PostgreSQL solutions in Visual Studio Code with the PostgreSQL extension and GitHub Copilot

- Understand how the PostgreSQL extension supports SQL development
- Understand how GitHub Copilot integrates with the PostgreSQL extension
- Use GitHub Copilot to generate, refine, and troubleshoot SQL queries

, Get started with generative AI in Azure Database for PostgreSQL, Enable semantic search in Azure Database for PostgreSQL, Summarize data with Azure AI Services and Azure database for PostgreSQL, Perform sentiment analysis and opinion mining with Azure Database for PostgreSQL, Extract insights using Azure AI Language and Azure Database for PostgreSQL, Translate Text with Azure AI Translator

and Azure Database for PostgreSQL, Use Azure Machine Learning for inferencing from Azure Database for PostgreSQL

Certification Path

Microsoft Applied Skills: Build AI apps with Azure Database for PostgreSQL

Exam: AI-3019

Upcoming Schedule

Available training dates for AI-3019 Build AI Apps with Azure Database for PostgreSQL:

Start Date	End Date	Location	Delivery	Price
24 Dec 2026	24 Dec 2026	Online	Virtual	€695.00

Frequently Asked Questions

Q: What delivery options are available for AI-3019 Build AI Apps with Azure Database for PostgreSQL?

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-3019 Build AI Apps with Azure Database for PostgreSQL course helps prepare you for the Microsoft Applied Skills: Build AI apps with Azure Database for PostgreSQL certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI-3019 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 1-day AI-3019 Build AI Apps with Azure Database for PostgreSQL course provides up to 0.8 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI-3019 Build AI Apps with Azure Database for PostgreSQL training?

The training takes place over 1 day(s), with each day lasting approximately 1.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI-3019 Build AI Apps with Azure Database for PostgreSQL?

Yes, we provide corporate training, dedicated training, and closed classes for AI-3019 Build AI Apps with Azure Database for PostgreSQL. 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-3019: Build AI Apps with Azure Database for PostgreSQL, Microsoft, vILT, AI-3019

Q: Why choose Nexus Human for AI-3019 Build AI Apps with Azure Database for PostgreSQL?

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

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- 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-3019 Build AI Apps with Azure Database for PostgreSQL training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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