



MICROSOFT TRAINING

Decode Azure Cognitive Search Language Course

Master Azure Cognitive Search language to build powerful, AI-driven search experiences for your applications.

DURATION

16 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The "Decode Azure Cognitive Search Language Course" empowers IT professionals to build highly intelligent and linguistically sophisticated search solutions using Microsoft Azure's powerful cloud platform. This intermediate-level, 16-hour course delves deep into the natural language processing (NLP) capabilities embedded within Azure Cognitive Search, teaching you how to transform raw data into a rich, semantic index. You will master techniques for linguistic analysis, multi-language support, custom text processing, and integrating AI services to unlock advanced search experiences that understand user intent and deliver hyper-relevant results.

Participants will gain practical expertise in leveraging analyzers, tokenizers, synonym maps, and custom skillsets to fine-tune search behavior for various languages and domains. The course emphasizes hands-on implementation, guiding you through scenarios where linguistic nuances dramatically impact search quality and user satisfaction. By the end of this certification, you'll be equipped to design, develop, and optimize enterprise-grade search applications that provide unparalleled discoverability and intelligence, directly contributing to improved business efficiency and enhanced user engagement.

Duration	16 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure Cognitive Search and Linguistic Fundamentals

- Overview of Azure Cognitive Search architecture and core components
- Understanding indexing, indexers, and data sources
- Introduction to text analysis and linguistic processing in search
- Built-in language support and default analyzers
- Creating and managing search services and indexes

02 Module 2: Advanced Text Analysis and Custom Analyzers

- Deep dive into text analysis concepts: tokenization, stemming, lemmatization
- Exploring different built-in analyzers (Standard, English, Keyword, Whitespace)
- Designing and implementing custom analyzers for specific linguistic requirements
- Utilizing character filters, tokenizers, and token filters
- Applying custom analysis to index fields for optimized search

03 Module 3: Multilingual Search and Linguistic Enhancements

- Strategies for building multilingual search solutions
- Implementing language detection and field-specific language analysis
- Working with synonym maps for query expansion and relevance
- Leveraging Azure Cognitive Services for deeper linguistic insights (e.g., entity recognition, key phrase extraction) through skillsets
- Developing custom skillsets for specialized language processing

04 Module 4: Semantic Search and Relevance Tuning with Language

- Introduction to semantic search capabilities in Azure Cognitive Search
- Configuring and leveraging semantic ranking for improved relevance
- Understanding scoring profiles and their impact on search results

- Best practices for tuning relevance based on linguistic features
- Analyzing search queries and results for continuous language optimization

05 Module 5: Integrating and Deploying Language-Enhanced Search Solutions

- Programmatic interaction with Azure Cognitive Search using SDKs (e.g., C#, Python)
- Integrating search into web applications and enterprise systems
- Monitoring and troubleshooting language-related search performance
- Security considerations for linguistic data in Azure Cognitive Search
- Deployment strategies and best practices for production environments

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Cloud Search Solutions Architect**
- > **AI/ML Engineer specializing in Intelligent Search**
- > **Data & AI Applications Developer**

FREQUENTLY ASKED QUESTIONS

Q: What specific natural language processing (NLP) techniques will I master to enhance search results in Azure Cognitive Search?

This course will equip you with practical mastery of several NLP techniques, including advanced tokenization, custom stemming and lemmatization through analyzers, sophisticated synonym mapping for query expansion, and the integration of AI-powered cognitive skills for entity recognition and key phrase extraction. You'll learn to apply these techniques to process text efficiently, understand user intent, and deliver highly relevant, context-aware search results.

Q: Is prior experience with Azure AI services or general NLP concepts required to excel in this course?

While an intermediate understanding of Azure fundamentals and basic search concepts is beneficial, prior in-depth experience with specific Azure AI services or advanced NLP theories is not strictly required. The course is designed to introduce and build upon the specific linguistic capabilities within Azure Cognitive Search, providing foundational knowledge where necessary and progressing to advanced application. A willingness to engage with technical concepts and hands-on labs is key.

Q: How will this course prepare me to implement multilingual search solutions within enterprise applications?

You will gain comprehensive skills in designing and implementing robust multilingual search solutions. This includes strategies for handling diverse languages in your index, leveraging language-specific analyzers, implementing dynamic language detection, and architecting search experiences that seamlessly serve users in multiple linguistic contexts. You will learn to configure your search service to respect language boundaries and preferences, ensuring accurate and relevant search results across different locales.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

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10,000+

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READY TO ENROL?

Take the next step in your technology career.

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