



MICROSOFT TRAINING

AI-3002: Develop AI Information Extraction Solutions in Azure Course Overview

Develop powerful AI information extraction solutions using Azure. Prepare for your Microsoft AI-3002 exam and master crucial AI skills.

DURATION

48 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

The AI-3002: Develop AI Information Extraction Solutions in Azure Course is an intermediate-level program designed for IT professionals, developers, and data scientists looking to master the art of extracting valuable insights from vast amounts of data using Microsoft Azure's powerful Artificial Intelligence services. This comprehensive 48-hour course delves deep into core technologies such as Azure Cognitive Services, Azure Cognitive Search, and Azure Machine Learning, equipping participants with the skills to build intelligent solutions that can process and understand both structured and unstructured information effectively. You will learn to leverage capabilities like Optical Character Recognition (OCR), document intelligence, natural language processing, and knowledge mining to transform raw data into actionable intelligence.

Participants will gain hands-on experience in implementing robust AI-driven data extraction pipelines, from identifying key phrases and entities to processing complex forms and invoices, and even building custom machine learning models for bespoke extraction needs. The course emphasizes practical application, guiding you through real-world scenarios where information extraction is critical for business processes, automation, and decision-making. By the end of this training, you will be proficient in designing, developing, and deploying scalable AI solutions that unlock the hidden value within your organization's data assets.

Completing this course will significantly enhance your professional portfolio, positioning you as an expert in cloud-based AI information extraction. The specialized knowledge and practical skills acquired will enable you to drive innovation within your team, automate tedious manual data entry tasks, and contribute to data-driven strategies that give your organization a competitive edge. This certification is a stepping stone to more advanced AI roles, demonstrating your capability to engineer intelligent systems that solve complex business challenges.

Duration	48 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	AI-3002

COURSE CURRICULUM

01 Module 1: Foundations of AI Information Extraction in Azure

- Introduction to Azure AI Platform and Services
- Understanding Information Extraction Concepts and Use Cases
- Overview of Azure Cognitive Services for Text and Vision
- Designing an Information Extraction Solution Architecture

02 Module 2: Leveraging Azure Language Services for Text Extraction

- Implementing Named Entity Recognition (NER) for Entity Extraction
- Applying Key Phrase Extraction and Sentiment Analysis
- Utilizing Text Analytics for Healthcare
- Working with Conversational Language Understanding (CLU) models

03 Module 3: Visual Information Extraction with Azure Computer Vision and Document Intelligence

- Fundamentals of Optical Character Recognition (OCR) with Azure Computer Vision
- Extracting Information from Documents and Forms using Azure Document Intelligence (Form Recognizer)
- Building Custom Document Intelligence Models for Specific Layouts

- Handling Invoices, Receipts, and ID Documents Programmatically

04 Module 4: Knowledge Mining with Azure Cognitive Search

- Introduction to Azure Cognitive Search and its Components
- Creating Search Indexes and Indexers
- Implementing AI Skillsets for Data Enrichment (e.g., Image Analysis, Language Detection)
- Integrating Custom Skills into Cognitive Search Pipelines

05 Module 5: Developing Custom AI Models for Complex Extraction

- Introduction to Azure Machine Learning for Custom Text Extraction
- Preparing Data for Custom Model Training
- Training, Evaluating, and Deploying Custom Text Extraction Models
- Integrating Custom Models with Azure Information Extraction Pipelines

06 Module 6: Deploying, Integrating, and Monitoring Information Extraction Solutions

- Integrating Azure Information Extraction Solutions with Applications
- Implementing Data Security and Compliance Best Practices
- Monitoring and Optimizing AI Extraction Solution Performance
- Strategies for Scaling and Maintaining Production AI Systems

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure AI Engineer specializing in Knowledge Mining**
- > **Data Extraction Solutions Architect**
- > **Machine Learning Operations (MLOps) Engineer with a focus on NLP/OCR pipelines**

FREQUENTLY ASKED QUESTIONS

Q: What specific business problems can I solve after completing the AI-3002 course?

Upon completing the AI-3002 course, you'll be equipped to solve critical business problems such as automating invoice and receipt processing, extracting key data from legal documents or contracts, analyzing customer feedback from reviews and emails, digitizing historical paper records, and building intelligent search experiences that can pull insights from vast document repositories. You'll move beyond simple keyword searches to truly understanding and extracting specific information from complex, unstructured data.

Q: What are the recommended technical prerequisites for someone enrolling in this intermediate-level AI-3002 course?

To get the most out of the AI-3002 course, participants should have foundational knowledge of cloud concepts, particularly with Azure services. Experience with programming in Python or C# is highly recommended, as is a basic understanding of REST APIs and data processing concepts. While not strictly required, familiarity with machine learning fundamentals or previous exposure to Azure AI services will be beneficial for a quicker grasp of advanced topics.

Q: How does the AI-3002 course differentiate between extracting information from structured versus unstructured data, and which Azure services are emphasized for each?

The AI-3002 course provides distinct approaches for both structured and unstructured data. For structured and semi-structured data like forms, invoices, and tables, it heavily emphasizes Azure Document Intelligence (formerly Form Recognizer) for its ability to define and extract specific fields accurately. For unstructured text from documents, articles, or customer feedback, the course focuses on Azure Language Services for Named Entity Recognition, key phrase extraction, and sentiment analysis, complemented by Azure Cognitive Search for comprehensive knowledge mining capabilities.

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+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke