KOENIG SOLUTIONS · COURSE OUTLINE

AI & Analytics with Microsoft

Learn to visualise data in Power BI and apply Azure AI services, from cognitive APIs to machine learning and generative AI.

3 Days	14	6
24 HOURS	TOPICS	HANDS-ON ACTIVITIES

COURSE OVERVIEW

This 3-day course empowers participants to visualize data using Power BI and explore Microsoft Azure's AI capabilities. Ideal for researchers, analysts, and developers, it covers dashboard creation, cognitive services, machine learning, and real-world use cases to drive intelligent, cloud-based decision-making.

WHO THIS COURSE IS FOR

- **University researchers and faculty**
- **IT professionals and developers**
- **Business analysts and decision-makers**
- **Students in data science or AI fields**

LEARNING OBJECTIVES

- Connect and transform data using Power Query
- Build data models and calculations with DAX
- Publish and share dashboards through Power BI Service
- Explain core Azure cloud concepts and resource management
- Apply Azure Cognitive Services such as Vision and Speech
- Implement AutoML with Azure Machine Learning
- Assess responsible AI principles including ethics and fairness
- Use Azure OpenAI for generative tasks

COURSE SYLLABUS

14 Topics

DAY 1 Data Analytics & Visualization with Power BI

TOPICS

Hands-on

- Introduction to Power BI ecosystem
- Connecting and transforming data (Power Query)
- Data modelling and DAX
- Predictive analytics in Power BI
- **Case Study:** Sales analytics using Power BI
- Publishing and sharing dashboards (Power BI Service)

DAY 2 Introduction to Microsoft Cloud & AI Services (Azure) - Part 1

TOPICS

3 Demos

- Overview of Microsoft Azure and Cloud Concepts
- Introduction to Azure Portal, Resource Groups, and Storage
- Azure AI Overview and Use Cases
- Introduction to Azure Cognitive Services (Vision, Language, Speech)

DAY 3 Microsoft Cloud & AI Services (Azure) - Part 2

TOPICS

2 Demos

- AutoML using Azure Machine Learning
- **Responsible AI:** Ethics and fairness
- Using Azure OpenAI for generative tasks
- **Research Enablement:** Leveraging Azure for academic/scientific data

HANDS-ON ACTIVITIES

Practise What You Learn

MODULE	ACTIVITY
Data Analytics & Visualization with Power BI	**Hands-on:** Build Reports and Dashboards using Power BI
Introduction to Microsoft Cloud & AI Services (Azure) - Part 1	DEMO ■ Building a simple AI-powered app using Azure Vision API ■ Building Language Understanding APP ■ Create Custom Models to recognize forms
Microsoft Cloud & AI Services (Azure) - Part 2	DEMO ■ Create GenAI Apps ■ Use your own data with GPT models

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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