

# Microsoft Skills For Jobs

## Microdegree Program



LEARNER-CENTRIC | WORLD-CLASS | FUTURE-READY | GLOBAL EMPLOYABILITY | PATHWAY TO HIGHER EDUCATION

A joint program by Microsoft and KAMK University with European Higher Education Transfer Credits (ECTS)



## CLOUD AND CYBERSECURITY

SELF-PACED | 7 CERTIFICATES | ONLINE | IN-CLASS MENTORSHIP | ASSIGNMENTS AND EXAM BASED

IN PARTNERSHIP WITH GLOBAL MENTOR COMPANIES

CLOUD AND CYBERSECURITY MICRODEGREE PROGRAM BROUGHT TO YOU BY





# What is it?

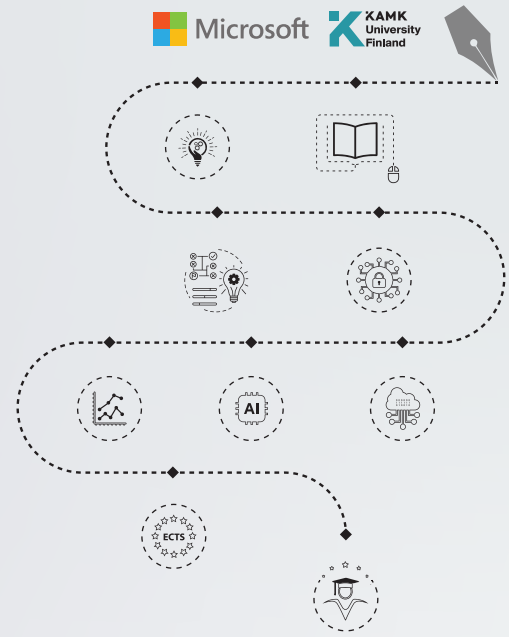
The Microsoft Skills for Jobs Microdegree Program is designed to help you build **real-world tech skills** that employers want and a pathway for higher studies in EU countries.

Microdegree Programs focuses on **in-demand technology** areas like cybersecurity, cloud computing, Low code tool set, AI, data analytics, and more. The program is built around **practical, job-relevant skills and uses a flexible, self-paced learning** model that fits your schedule.

Whether you are a student, recent graduate, freelancer, technology professional, career changer, or an individual seeking skills for employment without pursuing a full degree or diploma, this program is tailored for you.

You will learn through high-quality courses jointly developed by **Microsoft, KAMK University of Applied Sciences (Finland), and global tech companies.**

The courses follow the **European Credit Transfer and Accumulation System (ECTS)**, meaning your credits and certificates are internationally recognized for quality international and local jobs and higher studies in EU countries. The Microsoft Skills for Job Microdegree Program is an online program designed for self-paced learning, with in-class mentorship (region-specific) to support your journey.



## You will receive:

- ECTS credits for each course
- Digital badges
- Course Certificates from Microsoft and KAMK University
- Professional Certificate from Microsoft and KAMK University



Concepts &  
Technologies



ECTS  
Credits



Course  
Certificates



LinkedIn  
Badge



Online  
Verification



International  
Jobs



Local  
Jobs



Study  
Abroad



# Microdegree Program Goals



**Validate your skills and knowledge for the global job market**



**Gain a competitive edge in today's evolving employment landscape**



**Upskill or reskill to support career growth and advancement**



**Bridge the gap between academic learning and real-world industry demands**



**Create a pathway to higher education opportunities in EU countries**



**Promote lifelong learning through flexible, targeted, and accessible education**

# The Microdegree Program is Designed For



**University students** seeking hands-on, career-relevant qualifications



**Job seekers** aiming to stand out in a competitive recruitment process



**Career changers** acquiring new digital skills to enter the IT industry



**Freelancers** looking to expand services and increase earning potential



**Working professionals** focused on efficient upskilling or reskilling



**Organizations** investing in certified microlearning for employee development

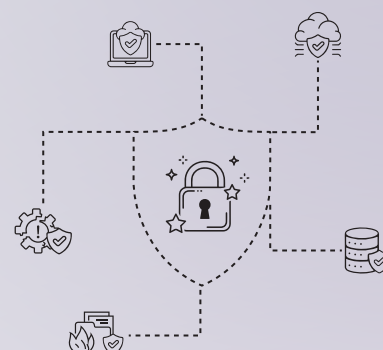


**Students** planning for higher education in European & North American Universities



# Cloud and Cybersecurity Microdegree Program

**Cloud and Cybersecurity involves safeguarding computer systems, networks, and data from unauthorized access, damage, or disruption.** In this Program, you'll explore how threats emerge in both on-premises and cloud environments and learn strategies, such as zero-trust architectures and ethical frameworks, to protect digital assets.



**Cloud and Cybersecurity Microdegree Program consists of six courses, brought to you by Microsoft, KAMK University, and global mentor companies.** After completing the program, you'll have foundational concepts and advanced techniques knowledge on cloud services and cybersecurity, as well as **Microsoft Azure**, the leading cloud platform that drives growth and facilitates efficient, secure workflows in numerous companies worldwide.

## Earn Globally Accepted Industry & Academia Recognized Credentials

- 6 Course Certificates issued by Microsoft and KAMK University
- Domain Professional Certificate issued by Microsoft and KAMK University
- Course skills qualification badges
- 12 ECTS credits transcript from KAMK University
- LinkedIn badge
- QR-verifiable Certificates for global authentication

## Job Roles For Graduates

These positions reflect industry demand for professionals who can bridge cloud operations with robust cybersecurity strategies.

- Azure Administrator & Security Engineer.** ..... Managing and securing cloud infrastructures
- Cloud & Cybersecurity Specialist or Engineer.** ..... Implement security controls and best practices
- Penetration Tester & Ethical Hacker.** ..... Testing systems for vulnerabilities
- Digital Forensics & Incident Response Analyst.** ..... Investigating and responding to incidents
- Security Analyst & Security Architect.** ..... Designing and overseeing secure architecture
- Compliance & Risk Management Consultant.** ..... Ensuring regulatory adherence
- Identity & Access Management Specialist.** ..... Managing authentication and authorization



# Study Program

| Certificate | Course                            | Online Self-Study | Mentorship | Online Assessments | ECTS Credits | Course Certificate     |
|-------------|-----------------------------------|-------------------|------------|--------------------|--------------|------------------------|
| 01          | Elements of Cloud & CyberSecurity | 54 Hours          | 04 Hours   | Yes                | 02 Credits   | Completion Certificate |
| 02          | Azure Fundamentals                | 54 Hours          | 04 Hours   | Yes                | 02 Credits   | Completion Certificate |
| 03          | CyberSecurity Fundamentals        | 54 Hours          | 04 Hours   | Yes                | 02 Credits   | Completion Certificate |
| 04          | Azure Administrator               | 81 Hours          | 04 Hours   | Yes                | 03 Credits   | Completion Certificate |
| 05          | Azure Security Technologies       | 27 Hours          | 04 Hours   | Yes                | 01 Credit    | Completion Certificate |
| 06          | CyberSecurity Architect           | 54 Hours          | 04 Hours   | Yes                | 02 Credits   | Completion Certificate |

324 Hours

12 Credits

## \*Region-Specific

Students earn the Cloud and CyberSecurity 'Professional Certificate and Shareable Badge' after completing all 6 courses



## 6 Course Certificates

## Professional Certificate





## COURSE 1 Elements of Cloud & Cybersecurity

### UNIT 01

#### INTRODUCTION TO CLOUD AND CYBERSECURITY

1. Basics of Cybersecurity
2. Terminology
3. Threat Landscape
4. Malware
5. Mitigation Strategies

### UNIT 02

#### CRYPTOGRAPHY AND ENCRYPTION

1. Basics of Cryptography
2. Terminology
3. Use Cases of Encryption
4. Hashing & Digital Signing
5. Digital Certificates

### UNIT 03

#### NETWORK AND DEVICE THREATS

1. Basics of Networks & Devices
2. Terminology
3. Network & Device Threats
4. Mitigating Network & Device Threats

### UNIT 04

#### AUTHENTICATION AND AUTHORIZATION

1. Basics of Authentication
2. Terminology
3. Authentication-Based Threats
4. Authorization & Security

### UNIT 05

#### INTRODUCTION TO CLOUD SERVICES

1. Basics of Cloud Computing
2. Cloud Terminology
3. Consumption-Based Computing
4. Benefits of Cloud Computing

### UNIT 06

#### CYBERSECURITY AND CLOUD

1. Basics of Cloud Security
2. Terminology
3. Zero Trust
4. Ethics
5. Summary



## COURSE 2 Azure Fundamentals

### UNIT 01

#### INTRODUCTION TO AZURE

1. Basics of Azure
2. Physical Infrastructure
3. Management Infrastructure
4. Computing Service
5. Virtual Networking

### UNIT 02

#### DATA, STORAGE AND SAFETY

1. Azure Storage
2. Storage Services
3. Data Migration
4. Authentication & Authorization
5. Conditional Access

### UNIT 03

#### GOVERNANCE AND COST MANAGEMENT

1. Project Management in Azure
2. Managing with Azure Arc
3. Governance & Compliance
4. Cost Management
5. Summary



## COURSE 3 CyberSecurity Fundamentals

### UNIT 01

#### INTRODUCTION TO AZURE SECURITY

1. Security & Compliance Concepts
2. Identity Concepts
3. Cybersecurity in Azure
4. Security Management in Azure
5. Microsoft Sentinel and 365 Defender

### UNIT 02

#### AZURE ACTIVE DIRECTORY SERVICES

1. Basics of Azure AD
2. Identities in Azure AD
3. Authentication in Azure AD
4. Access Management in Azure AD
5. Identity Protection in Azure AD

### UNIT 03

#### MICROSOFT COMPLIANCE SOLUTIONS

1. Introduction to Compliance
2. Microsoft Purview
3. Insider Risk Management
4. Resource Governance
5. Summary



## COURSE 4 Azure Administrator

### UNIT 01

#### BASIC AZURE SERVICES

1. Azure Resources
2. Azure Resource Manager
3. Automating Azure Tasks
4. Controlling Azure Services
5. Identities & Role Management

### UNIT 04

#### VIRTUAL NETWORKING

1. Setting Up Virtual Networks
2. Azure Firewall & DNS
3. Azure VPN Gateways
4. Routing and Load-balancing
5. Azure Application Gateways

### UNIT 02

#### STORAGE IN AZURE

1. Storage Accounts & File Explorer
2. Blob Storage
3. Azure Files & Synchronization
4. Storage Explorer and Tools
5. Shared Access Signatures

### UNIT 05

#### MONITORING AND MAINTENANCE

1. Azure Monitor
2. Azure Network Watcher
3. Azure Monitor Logs
4. Azure Backups
5. Summary

### UNIT 03

#### COMPUTING RESOURCES

1. Virtual Machines
2. Virtual Machine Availability
3. Application Development
4. Azure Kubernetes Service
5. Automation State Configuration

## COURSE 5 Azure Security Technologies

### UNIT 01

#### IDENTITY AND ACCESS

1. Securing User Identities
2. Azure and Passwords
3. Azure AD Identity Protection
4. Privileged Identity Management
5. Governance Strategies

### UNIT 02

#### PLATFORM SECURITY

1. Perimeter Security
2. Network Security
3. Host Security
4. Update Management & Disk Encryption
5. Container Security

### UNIT 03

#### APPLICATION AND DATA SECURITY

1. Introduction to Azure Key Vault
2. Azure Key Vault Features
3. Application Security
4. Data Security
5. Summary

## COURSE 6 Cybersecurity Architect

### UNIT 01

#### SECURITY STRATEGIES AND RESILIENCE

1. Security Strategy & Architecture
2. Building Resiliency
3. Building a Strategy
4. Developing Security Options
5. Identity Security Strategies

### UNIT 02

#### COMPLIANCE AND RISK MANAGEMENT

1. Regulatory Compliance Strategies
2. Azure Policy
3. Risk Management
4. Mitigating Risks in Azure
5. Cyber Threat Intelligence

### UNIT 03

#### INFRASTRUCTURE SECURITY

1. Implementing Security Strategies
2. Best Practices for Strategy Building
3. Security Baselines
4. Securing PaaS, IaaS, and SaaS
5. Securing Workloads

### UNIT 04

#### APPLICATION AND DATA SECURITY

1. Threat Modeling & Application Identification
2. Application Classification and Security
3. Application Development and Security
4. Threat Modeling and Data Identification
5. Mitigating Data Threats

### UNIT 05

#### EFFICIENT SECURITY PRACTICES

1. Best Practices and Antipatterns
2. Assessing Security Performance
3. Cloud Adoption Framework
4. Mitigating Ransomware Attacks
5. Summary

# Eligibility

## Eligibility Criteria

## Details


|                                      |                                                                                                                                                                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>English Language</b>              | A good command of the English language is required, as all course content, assignments, and communication are conducted in English.                                                                                                          |
| <b>Prior Knowledge</b>               | Not required. Anyone can enroll.                                                                                                                                                                                                             |
| <b>Recommended Background</b>        | Basic IT awareness is helpful but not mandatory.                                                                                                                                                                                             |
| <b>Learning Format</b>               | Online with mentorship classes, self-paced and browser based (no downloads).                                                                                                                                                                 |
| <b>Assessment Method</b>             | Pass or fail assignments.                                                                                                                                                                                                                    |
| <b>Hardware with Internet Access</b> | Laptop, Tablet or Smartphone.                                                                                                                                                                                                                |
| <b>Study Program Duration</b>        | The Edukamu Learning Management System (LMS) remains accessible for 12 months to complete the Microdegree Study Program. On average, students finish their chosen Microdegree within 3–5 months, depending on the specific program selected. |


For more information about the admission process, please contact:


**Exclusive and Authorised Microdegree Program Partner**



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