

# Information Security, Cyber Security & AI Mastery Course

Secretary & Admin  
Accra (Ghana)  
11 - 22 Aug 2025

UK Traininig

# PARTNER



## Information Security, Cyber Security & AI Mastery Course

**Ref:** 321817\_147543 **Date:** 11 - 22 Aug 2025 **Location:** Accra (Ghana) **Fees:** 5600 **Euro**

### Course Description

This comprehensive 10-day course provides an in-depth exploration of information security, cyber security, and artificial intelligence AI in the context of modern digital threats. Participants will gain practical knowledge and skills in threat detection, risk management, and AI-powered security solutions. The course combines theoretical concepts with hands-on exercises to prepare professionals for the evolving landscape of digital security.

### Learning Objectives

- Understand core principles of information security and cyber security
- Analyze and mitigate common cyber threats and vulnerabilities
- Apply AI and machine learning techniques to enhance security operations
- Develop strategies for implementing AI-driven security solutions
- Evaluate ethical considerations in AI-powered security systems

### Course Modules

#### Day 1: Foundations of Information Security

- Introduction to information security concepts
- CIA triad: Confidentiality, Integrity, and Availability
- Security policies and standards
- Risk management fundamentals

#### Day 2: Cyber Security Essentials

- Cyber threat landscape overview
- Network security principles
- Endpoint security and access control
- Incident response basics

#### Day 3: Cryptography and Data Protection

- Encryption algorithms and protocols
- Public Key Infrastructure PKI
- Data classification and handling
- Privacy regulations and compliance

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

UK Training  
**PARTNER**

## **Day 4: Artificial Intelligence Fundamentals**

- Introduction to AI and machine learning
- Supervised and unsupervised learning
- Neural networks and deep learning
- AI applications in cybersecurity

## **Day 5: AI-Powered Threat Detection**

- Anomaly detection using machine learning
- Behavioral analytics and user profiling
- AI-driven intrusion detection systems
- Threat intelligence and AI

## **Day 6: Security Information and Event Management SIEM**

- SIEM architecture and components
- Log collection and normalization
- Correlation rules and alerts
- AI-enhanced SIEM capabilities

## **Day 7: AI in Malware Analysis and Prevention**

- Machine learning for malware classification
- Automated malware analysis techniques
- AI-powered antivirus solutions
- Zero-day threat detection using AI

## **Day 8: AI-Driven Network Security**

- Network traffic analysis using AI
- DDoS mitigation with machine learning
- AI-based firewall and IPS systems
- Software-defined networking and AI

## **Day 9: Ethical AI and Security**

- Bias and fairness in AI security systems
- Explainable AI for security decisions
- Privacy-preserving machine learning
- Ethical considerations in AI-powered surveillance

## **Day 10: Future Trends and Capstone Project**

- Emerging AI technologies in cybersecurity
- Quantum computing and post-quantum cryptography
- AI-human collaboration in security operations

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

UK Training  
**PARTNER**

- Capstone project: Designing an AI-enhanced security solution

## Practical Wins for Participants

- Ability to implement AI-driven threat detection systems
- Skills to enhance existing security infrastructure with AI capabilities
- Knowledge to evaluate and select appropriate AI security solutions
- Strategies for integrating AI into organizational security policies and procedures

A graphic of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight behind it. The board has a checkered pattern, and there are concentric circles in the background.

UK Training  
**PARTNER**

## Blackbird training cities



Accra (Ghana)

Amman (Jordan)

Amsterdam (Netherlands)

Annecy (France)

Baku (Azerbaijan)

Bali (Indonesia)

Bangkok (Thailand)

Bangkok (Thailand)

Barcelona (Spain)

Batumi (Georgia)

Beijing (China)

Beirut (Lebanon)

Berlin (Germany)

Birmingham (UK)

Bordeaux (France)

Boston, Massachusetts (USA)

Brussels (Belgium)

Cairo (Egypt)

Cape Town (South Africa)

Casablanca (Morocco)

Cascais (Portugal)

Copenhagen (Denmark)

Doha (Qatar)

Dubai (UAE)

Düsseldorf (Germany)

UK Training  
**PARTNER**





## Blackbird Training Category



Human Resource



Audit & Quality Assurance



Finance, Accounting, Budgeting



Marketing, Sales, Customer Service



Secretary & Admin



Law and Contract Management



Project Management



IT & IT Engineering



Supply Chain & Logistics



Management & Leadership



Professional Skills



Oil & Gas Engineering



Health & Safety



Telecom Engineering



Hospital Management



Customs & Safety



Aviation



C-Suite Training



Agile and Refinement



## Blackbird training Clients



MANNAI Trading  
Company WLL,  
Qatar



Alumina Corporation  
Guinea



Booking.com  
Netherlands



Oxfam GB International  
Organization,  
Yemen



Capital Markets  
Authority,  
Kuwait



Waltersmith Petroman Oil Limited  
Nigeria



Qatar National Bank  
(QNB),  
Qatar



Qatar Foundation,  
Qatar



AFRICAN UNION ADVISORY  
BOARD ON CORRUPTION,  
Tanzania



KFAS  
Kuwait



Reserve Bank of  
Malawi,  
Malawi



Central Bank of Nigeria  
Nigeria



Ministry of Interior  
Kingdom of Saudi Arabia  
KSA



Mabruk Oil Company  
Libya



Saudi Electricity  
Company,  
KSA



BADAN PENGELOLA  
KEUANGAN Haji,  
Indonesia



NATO  
Italy



ENI CORPORATE  
UNIVERSITY,  
Italy



Gulf Bank  
Kuwait



المؤسسة العامة للتأمينات الاجتماعية  
General Organization for Social Insurance  
KSA



Defence Space Administration  
Nigeria



National Industries  
Group (Holding),  
Kuwait



Hamad Medical  
Corporation,  
Qatar



USAID  
Pakistan



STC Solutions,  
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS  
UN.



هيئة تنظيم الكهرباء - عمان  
Authority for

UK Training  
**PARTNER**



**LONDON TRAINING PROVIDER**



[www.blackbird-training.com](http://www.blackbird-training.com)



[training@blackbird-training.com](mailto:training@blackbird-training.com)



+44 7480 775526 / +44 7401 177335