



Workshop on IT Systems: Identity and Access Management

June 1 – 5, 2026, 1st Run: Lagos & Port Harcourt

November 16 – 20, 2026, 2nd Run: Lagos & Abuja

For Tutor -Led Class: 9am – 4:30pm

Workshop fee: Lagos: N350, 000,

Abuja / Port Harcourt: N400, 000 per Participant

Delivery Mode: In-person / Live Virtual / Hybrid

Online course fee: N300, 000 per Participant

Available for In-plant Training

**700 U\$D for foreign
Participants**

Program Overview:

We are living in the age of the Internet of Things (IoT) which provides seamless integration and ease of access between various objects regardless of their physical proximity. The IoT is spreading across different vertical domains such as healthcare systems, government services, banks and telecommunications, just to name a few. We are no longer only vulnerable to attacks against valuable enterprises' digital content but also to life threatening attacks, terrorist attacks, espionage attacks, etc. The need for providing identity assurance and stringent access control, as a result, is of utmost importance. This course covers the fundamental principles and architecture framework for an end-to-end IT identity and access management system. This includes identity assurance, authentication, authorization, accountability, auditability, Single Sign-On (SSO) and identity federation. It also discusses practical case studies such as e-passport, mobile banking, e-government services, EMV systems and other selected cases.

For Whom:

This course has been designed for IT professionals such as IT Strategic Planners, Project Managers, Security Managers, Security Architects and Risk Managers. Although the course is technical in nature, complex concepts are discussed at an abstract level to fit the needs of participants from various technical backgrounds.

Learning Objectives:

At the end of the program, participants will be able to:

- illustrate the identity and access management architecture framework and discuss the security risks associated with its various deployment options;
- discuss the different mechanisms for establishing strong authentication (e.g. OTP, certificate-based authentication, device authentication, etc.);
- explain the principles of key public infrastructure and certification authorities, and demonstrate their value in mitigating the security risks facing modern societies;
- explain the most well-known access control mechanisms and the roles of oauth, OATH, SAML and OpenID standards in the IAM domain and apply the concepts of (federated) SSO; and
- demonstrate the building of IAM using selected industrial tools and practical case studies (e.g. e-passport and boarder gate, mobile-banking, EMV scheme, and e-movement services).

Course Outline:

Day 1: Introduction and principles of information security:

- Identity and access management (IAM) overview
- Attributes of information security:
- Confidentiality
- Integrity
- Availability
- Non-repudiation
- Accountability

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Lagos: Human Capital Associates Global Consult Ltd: Acme House 2nd Floor, Ogbagba Industrial Scheme, Ogbagba, Ikeja – Lagos

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- Auditability
- Symmetric and asymmetric cryptography
- Hashing and digital signature
- Key management

Day 2: Public Key Infrastructure (PKI)

- Architecture: certification and registration authority
- Life cycle management
- Types of certificates and usage patterns
- Encryption
- Digital signature
- Client certificate
- SSL server certificate
- Attribute based certificate
- Case studies (e.g. email protection, mobile banking, and document signing)

Day 3: Identification and authentication

- Identification, verification and authentication overview
- Mechanisms of identification and authentication
- One time password
- Biometric
- Digital signature
- Smartcard
- Soft/hard tokens
- Mobile device

Day 4: Risk based authentication

- Step-up authentication
- Single-sign on and federated single-sign-on
- OATH, OpenID, BearerID, and SAML
- Architecture framework and industrial tools
- Trusted computing role in identity assurance
- Security risks associated with the discussed mechanisms

Day 5: Access control

- Principles of authorization
- Access control schemes
- OAuth protocol
- Enterprise rights management and digital rights management
- Privileged account management
- Governance and compliance
- IAM architecture framework
- IAM echo system
- IAM and cloud computing
- Illustrative use cases
- Border control, E-passport
- National ID, E-banking
- E-health system
- EMV scheme

LOCATIONS

1 - HCA Learning Centre. Acme House 2nd Floor, 23, Acme Road, Ogba, Industrial Scheme, Ikeja, Lagos, Nigeria

2 – FAB By Toprank Hotel, Opposite Old Federal Secretariat Area 1, Garki, Abuja.

3 – Pakiri hotel Ltd., 4 Okwuruola Street, off Stadium Road, Rumuola, Port Harcourt, Rivers State.

In-plant Fee Negotiable

WORKSHOP FEE:

Workshop fee: Lagos: N350, 000 per Participant, VAT-N26,250

Abuja / Port Harcourt: N400, 000 per Participant, VAT-N30,000

Note: this covers Workshop Fee, Tea/coffee break, Lunch, course materials and certificate of attendance.

Payment should be made into our Accounts:

Account Name: Human Capital Associates Global Consult Ltd.

Union Bank of Nig. PLC: Account No: 0097961537

First Bank of Nig. PLC: Account No: 2033683960

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Training Methodology

Lectures, discussions, exercises, and case studies will be used to reinforce these teaching/learning methods.

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