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## IT Systems: Identity and Access Management

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# Course content

## Why Attend

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

## Course Methodology

- This course is highly interactive and includes group discussions, case studies and syndicate work. It also includes practical exercises and role playing that allow all participants to use the knowledge they gained to demonstrate their skills in identity and access management.

## Course Objectives

- 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
- 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)

## Target Audience

- 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.

- Target Competencies
- Information security management
- Implementing public key infrastructure

# Course outline

## Detailed course outline

Module-by-module outline for IT Systems: Identity and Access Management.

### Module 1 - Introduction and principles of information security

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

### Module 2 - Public Key Infrastructure (PKI)

- Architecture: certification and registration authority
- Life cycle management
- Types of certificates and usage patterns:
  - Encryption
  - Digital signature
  - Client certificate

# Course outline

## Detailed course outline

Module-by-module outline for IT Systems: Identity and Access Management.

### Module 3 - Identification and authentication

- Identification, verification and authentication overview
- Mechanisms of identification and authentication:
  - One time password
  - Biometric
  - Digital signature
  - Smartcard

### Module 4 - Access control

- Principles of authorization
- Access control schemes
- OAuth protocol
- Enterprise rights management and digital rights management
- Privileged account management
- Governance and compliance

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Module-by-module outline for IT Systems: Identity and Access Management.

### Module 5 - IAM framework and use cases

- IAM architecture framework
- IAM echo system
- IAM and cloud computing
- Illustrative use cases:
  - Border control
  - E-passport

# Seminar dates

## Available seminar dates

Live dates and pricing for IT Systems: Identity and Access Management generated from the course details page.

Date	Location	Format	Fee
8 - 12 June 2026	Kuala Lumpur	Classroom	€1,575
6 - 10 July 2026	Barcelona	Classroom	€2,695
10 - 14 August 2026	London	Classroom	€2,940
14 - 18 September 2026	Munich	Classroom	€2,415
5 - 9 October 2026	Amsterdam	Classroom	€2,975
16 - 20 November 2026	Istanbul	Classroom	€1,995
7 - 11 December 2026	Rome	Classroom	€2,975

**Live online option**

Online delivery is available at €1,250.