



EC-COUNCIL

UNIVERSITY

CENTER OF PROFESSIONAL EDUCATION

**Elevate Your
Cybersecurity Career with Certificate in
Identity and Access Management (IDAM)**



Course Overview

In today's digital landscape, the importance of Identity and Access Management (IAM) in safeguarding data privacy and ensuring regulatory compliance cannot be overstated. With over 22 billion records exposed due to 4000 data breaches in 2023* alone, the importance of Identity and Access Management (IAM) has never been more apparent. Moreover, the average cost of a data breach reached \$4.45 million in 2023,** highlighting the financial implications of inadequate IAM practices.

As organizations strive to comply with stringent regulations, the demand for IAM professionals is skyrocketing, with job postings increasing by 28% annually and an estimated 3.5 million unfilled cybersecurity positions by 2025.# IAM expertise is essential across various industries, from finance and healthcare to government and technology, each facing unique challenges in protecting sensitive data and ensuring regulatory compliance.

This course addresses the increasing need for robust IAM frameworks in various business contexts, such as Business-to-Employee (B2E), Business-to-Business (B2B), Business-to-Customer (B2C), and Government-to-Citizen (G2C).

By the end of this course, participants will have developed practical skills to design, implement, and manage IAM systems effectively. They will be equipped to handle IAM processes, ensure compliance, and enhance security across various organizational structures, preparing them for advanced roles in IAM governance and implementation.

Course Highlights



Hands-On Learning with Labs and Challenges

Engage in practical simulated learning environments that challenge you with real-world scenarios and applications.



Domain Expertise

Equip yourself with the skills for roles that require expertise in identity and access management. This course covers basic to advanced topics in this field.



Learning from ECCU Faculty and Industry Experts

Benefit from the expertise of ECCU faculty and industry-leading professionals who bring current, real-world insights into your learning.



Flexible Learning Options, Online

Our course are delivered online and are designed to fit your busy schedule.



Global Network of Cybersecurity Professionals

Join a community of highly motivated individuals who share your passion for cybersecurity and professional growth.



Scalable Skills for Career Advancement

Acquire versatile and reusable skills to excel in the ever-evolving cybersecurity landscape.



What You Will Learn

Understanding IAM concepts, data privacy, compliance

Developing IAM governance: policies, procedures

Exploring IAM implementations: B2E, B2B, G2C

Analyzing stakeholder management, centralization impact

Comprehending identification, authentication processes

Exploring authorization models, system security

Understanding IAM processes: credential issuance, provisioning

Analyzing automation, audit, monitoring IAM

Familiarizing with IAM standards, robust practices

Identifying IAM issues, future trends

Understanding SSO, federated identity principles

Analyzing SSO, federation: trust, latency

Understanding cloud computing models, IAM relevance

Exploring IAM security, compliance in cloud

Developing structured IAM implementation: requirements

Understanding IAM implementation: testing, migration

Gaining knowledge of IAM technologies

Exploring IAM technology applications, security

Understanding emerging IAM trends: blockchain

Analyzing IAM trends' future impact

Exploring national identity frameworks: requirements

Understanding large-scale IAM challenges, practices

Comprehending federated identity management, services

Analyzing federated identity challenges, practices

Understanding enterprise IAM: Active Directory

Analyzing enterprise IAM integration challenges

Understanding web services integration: SSO

Analyzing web integration, SSO challenges

Syllabus

Take a quick look at the modules of this comprehensive course:

Module 01: Identity Access Management Concepts

- Understanding the fundamental concepts and criticality of IAM, including its role in ensuring data privacy and regulatory compliance.
 - Exploring various examples of IAM implementations in different business contexts, such as Business to Employee (B2E), Business to Business (B2B), Business to Customer (B2C), and Government to Citizen (G2C).
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Module 02: Governance

- Developing an understanding of the governance framework for IAM, including the formulation of policies, procedures, and business cases.
 - Analyzing the importance of stakeholder management, service standards, and the impact of centralization versus decentralization in IAM governance.
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Module 3: Key IAM Concepts

- Gaining a comprehensive understanding of identification and authentication processes, including various authentication factors like one-time passwords, hard tokens, soft tokens, and biometrics.
 - Exploring different authorization models and their application in managing access rights, ensuring data visibility, and maintaining system security.
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Module 4: Organizational Processes

- Understanding the end-to-end organizational processes in IAM, including registration, credential issuance, provisioning, and deprovisioning.
 - Analyzing the role of automation and scripting in IAM processes and the importance of audit and monitoring for compliance and performance management.
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Module 5: IAM Guidance and Standards

- Familiarizing with key IAM standards and guidance frameworks, understanding their importance in ensuring robust and compliant IAM practices.
- Identifying and addressing common IAM issues, such as privilege creep and scope visibility, and explore future trends shaping the field of IAM.

Module 6: Single Sign-On and Federation

- Understanding the principles and benefits of Single Sign-On (SSO) and federated identity management, including key considerations and potential challenges.
 - Analyzing the technical and business implications of implementing SSO and federation, focusing on trust, latency, and data quality.
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Module 7: Cloud

- Understanding the principles of cloud computing and the various cloud service models (SaaS, PaaS, IaaS, IDaaS), and their relevance to IAM.
 - Exploring the security and compliance considerations for IAM in the cloud, including GDPR, physical and logical security, and the importance of standards-based approaches.
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Module 8: IAM Implementation

- Developing a structured approach to IAM implementation, including the creation of business cases, identification of requirements, and stakeholder management.
 - Understanding the key phases of IAM implementation projects, focusing on user acceptance testing, migration strategies, documentation, and ongoing support.
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Module 9: Technologies

- Understanding the emerging trends and innovations in IAM, such as UEBA, AI, mobile device authentication, and blockchain.
 - Analyzing the potential impact and applications of these trends on the future of identity and access management, preparing for advancements in the field.
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Module 11: Establishing Identity

- Exploring the practical aspects of establishing national identity frameworks, including requirements, solution architecture, and technology selection.
 - Understanding the challenges and best practices in implementing large-scale identity systems, ensuring reliability and security.
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Module 12: Federating Identity

- Understanding the requirements and solution architecture for federated identity management in digital services.
- Analyzing the implementation challenges and best practices for federating identity, ensuring seamless and secure digital interactions.

Module 13: Enterprise Integration

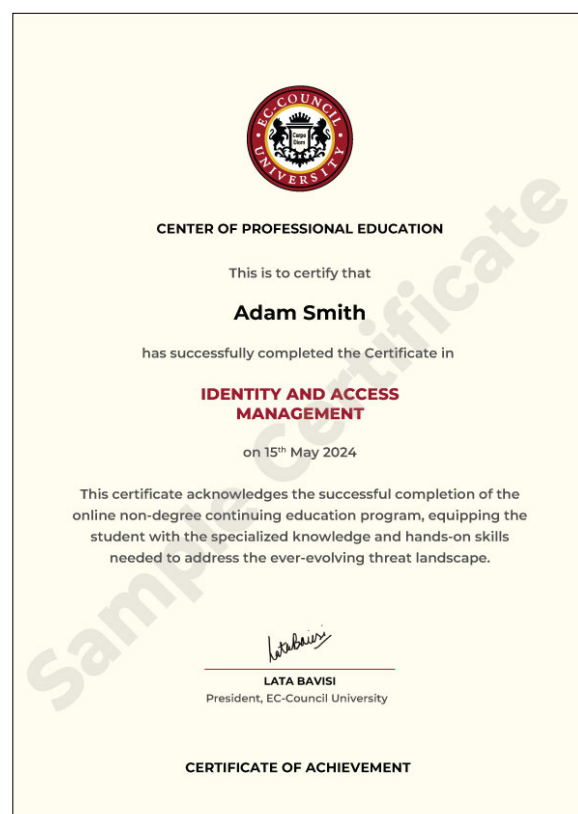
- Exploring the requirements and solution architecture for integrating enterprise IAM systems, such as Active Directory with Azure.
- Understanding the implementation challenges and best practices for enterprise IAM integration, ensuring seamless and secure identity management.

Module 14: Web Services and Single Sign-On

- Understanding the requirements and solution architecture for integrating web services with Ping Identity for Single Sign-On (SSO).
- Analyzing the implementation challenges and best practices for web service integration and SSO, ensuring secure and efficient user authentication.

Certificate of Achievement

On successfully completing this program, you will receive a certificate of achievement from the EC-Council University Center of Professional Education that adds a competitive edge to your resume.



Get Ready for Diverse Job Roles with Your Professional Certificate Course

- **IAM Manager:** Strategic planning, policy development, team leadership, and project management.
- **Security Analyst:** Risk assessment, threat detection, incident response, and vulnerability management.
- **Compliance Officer:** Ensuring adherence to regulatory standards, conducting audits, and managing compliance Courses.
- **IT Auditor:** Evaluating IT systems and controls, identifying risks, and recommending improvements.
- **IAM Consultant:** Advising organizations on IAM strategies, implementations, and best practices.

About **EC-Council University** **Center of Professional Education**

In an era where cyber threats are constantly evolving and becoming increasingly sophisticated, the need for specialized education and training has never been more critical. To meet this demand, EC-Council University established the Center of Professional Learning to offer online non-degree continuing education courses and lifelong learning opportunities for IT and cybersecurity professionals, worldwide. These courses offer maximum flexibility for working professionals to enhance their skills and further their cybersecurity careers with a non-credit certificate from EC-Council University.

About **EC-Council University**



EC-Council University is an accredited online institution and part of the EC-Council group, prioritizing ethical behavior, innovative thinking, scholarship, and leadership. Offering asynchronous programs with live learning components in cybersecurity, ECCU aims to enhance the learning experience and drive excellence in cybersecurity education.

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Ready to deep dive into Identity and Access Management (IDAM)?

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