EC-Council Cloud Security Essentials (CSE)

Category: Networking & Security | **Vendor:** EC-Council

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This course will provide you with the skills that you need to understand the foundational and essential aspects of Cloud Security. You will learn the fundamentals of cloud computing and the essential aspects of securing identities, data, and applications within cloud providers and hybrid infrastructures. Put your newly acquired abilities to the test in our exhilarating Capstone project to develop the hands-on proficiencies essential for success in your cyber professional role. After completing this course, you will be prepared to move toward a career in cloud security and take the next steps in cloud security certifications.

About This Course

This course will provide you with the skills that you need to understand the foundational and essential aspects of Cloud Security. You will learn the fundamentals of cloud computing and the essential aspects of securing identities, data, and applications within cloud providers and hybrid infrastructures. Put your newly acquired abilities to the test in our exhilarating Capstone project to develop the hands-on proficiencies essential for success in your cyber professional role. After completing this course, you will be prepared to move toward a career in cloud security and take the next steps in cloud security certifications.

Who Should Attend

- School students, graduates, professionals, career starters and changers, IT / Technology / Cybersecurity teams with little or no work experience.
- Anyone who wants to start a career in cybersecurity, cloud security, or network security and is interested in cloud technology.
- Professionals securing public, private, and hybrid cloud infrastructures, identities, data, and applications.
- IT professionals, system administrators, cloud administrators, cybersecurity operations and administrators, engineers, and architects.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Learn the fundamentals of cloud computing and security. Explore identity and access management in the cloud. Learn about data protection and encryption in the cloud. Gain knowledge of network security in cloud environments. Dive deep into application security in cloud environments. Gain insights on cloud security monitoring and incident response. Explore cloud security risk assessment and management. Understand the basics of cloud compliance and governance.

Detailed Course Outline

Module 1: Cloud Computing and Security Fundamentals

- Cloud Computing Types and Service Models
- Cloud Security Challenges and Concerns
- Cloud and Security Responsibility
- Evaluating Cloud Service Providers
- Cloud Security Benefits
- Threats and Attacks in Cloud Environments
- Cloud Security Design Principles
- Cloud Security Architecture

Module 2: Identity and Access Management (IAM) in the Cloud

- IAM Fundamentals
- Principal and Roles of IAM in the Cloud
- Role-based Access Control (RBAC)
- Identity Federation
- Single Sign-on (SSO) and Self-Service Password Reset (SSPR)
- Multifactor Authentication (MFA)
- Principle of Least Privilege
- IAM Auditing and Monitoring

Module 3: Data Protection and Encryption in the Cloud

- Data Classification and Lifecycle
- Encryption Techniques (at Rest, in Transit)
- Customer vs. Cloud Provider Managed Keys
- Data Loss Prevention (DLP)
- Backup and Disaster Recovery Strategies

Module 4: Network Security in Cloud

- Cloud Network Fundamentals
- Virtual Private Clouds (VPC)
- Network Isolation and Segmentation
- Network Access Control Lists (NACLs) and Network Security Groups (NSG)
- Remote Access and Connections
- Firewalls and Intrusion Detection

Module 5: Application Security in Cloud

- Secure Software Development Lifecycle (SDLC) in the Cloud
- Web Application Firewall (WAF) in Cloud Environments
- Web Application Security and OWASP Top Ten
- Security by Design Principles for Cloud Applications
- Secure Coding Practices
- API Security and Integration Best Practices
- Serverless Security Considerations
- Container Security (Docker, Kubernetes)

Module 6: Cloud Security Monitoring and Incident Response

- Cloud Logging
- Cloud Security Monitoring
- SIEM and SOAR
- Cloud-native Monitoring Solutions
- Continuous Cloud Security Monitoring
- Incident Response and Investigation in the Cloud

Module 7: Cloud Security Risk Assessment and Management

- Regulatory and Industry Compliance
- Cloud Security Standards
- Cloud Security Governance and Risk Management
- Auditing and Monitoring Cloud Resources
- Cloud Security Assessment and Penetration Testing

Module 8: Cloud Compliance and Governance

- Regulatory and Industry Compliance
- Cloud Security Standards
- Cloud Security Governance and Risk Management
- Auditing and Monitoring Cloud Resources
- Cloud Security Assessment and Penetration Testing

Frequently Asked Questions

Q: What delivery options are available for EC-Council Cloud Security Essentials (CSE)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day EC-Council Cloud Security Essentials (CSE) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the EC-Council Cloud Security Essentials (CSE) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for EC-Council Cloud Security Essentials (CSE)?

Yes, we provide corporate training, dedicated training, and closed classes for EC-Council Cloud Security Essentials (CSE). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for EC-Council Cloud Security Essentials (CSE)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your EC-Council Cloud Security Essentials (CSE) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 14/11/2026.