

# C | CSD

## Certified Cloud Security Developer

Ducara Info Solutions (P) Ltd.

# Why Certified Cloud Security Developer?

C|CSD Training Course will help you gain expertise in cloud security implementation, management, development, architecture, design, applications and operations.

This course give step by step guidance and easy-to-follow detailed explanation on every facet of cloud systems security.

Gain a firm foothold on Cloud computing and relevant security concepts. Comprehend design principles of secure Cloud computing, know about Cloud data lifecycle.

Apply data discovery and classification technologies. Learn about Cloud infrastructure components and analyze risks associated.





## What Statistics says?

Cloud computing stats reveal the exponential growth of the industry.

Estimated \$24.65 billion in 2010 surpassed \$100 billion mark today.

**Cloud Computing industry will Reach \$150 billion by the end of 2020!**

1. 81% of all enterprisers have a multi-cloud strategy already laid out or in the works
2. By the end of 2020, 67% of enterprise infrastructure will be cloud-based
3. Additionally, 82% of the workload will reside on the cloud
4. As a result, when the next decade begins in earnest, more than 40 zettabytes of data will be flowing through cloud servers and networks
5. It makes sense, as even today the average person uses 36 cloud-based services every single day
6. Back in 2017, the public cloud market generated over \$130 billion
7. The private cloud market is expected to generate over \$206 in 2019

# What is the Course Outcome?

The C | CSD certification training focuses to impart a deep and clear understanding of:



## Develop

Develop & design Cloud data storage architectures and security strategies, and implement them effectively.



## Create

Create and execute relevant jurisdictional data protection for personally identifiable information.



## Implement

Plan and implement data retention deletion archival policies. Understand the Software Development Lifecycle (SDLC) process and apply it.



## Build

Build and run logical and physical architectures for Cloud. Frame appropriate Identity and Access Management (IAM) solutions.



## Acquire

Acquire an understanding of legal requirements, privacy issues, and audit process methodologies within the Cloud environment.

# Who can get the Course benefits?



## Cloud Security Professionals

Cloud Security Developer  
Cloud Security Analyst  
Cloud Security Auditor  
Cloud Security Implementer



## IT Security Professionals

Ethical Hackers  
Security Analysts  
Security Auditor  
Security Consultant



## IT Professionals

Cloud Analyst  
Cloud Engineer  
Cloud Developer  
IT Consultant

**Course Duration: 32 Hrs**





# What is the Course Outline?

Topics covered

- 1 • Cloud Computing Concepts and Architectures
- 2 • Governance and Enterprise Risk Management
- 3 • Legal Issues, Contracts and Electronic Discovery
- 4 • Compliance and Audit Management
- 5 • Information Governance
- 6 • Management Plane and Business Continuity
- 7 • Infrastructure Security

8

- Virtualization and Containers

9

- Incident Response

10

- Application Security

11

- Data Security and Encryption

12

- Identity, Entitlement, and Access Management

13

- Security as a Service

14

- Related Technologies



# What is the Course Outline?

Topics covered

# Module 1

## Cloud Computing Concepts & Architectures

1. Definitions of Cloud Computing
2. Service Models
3. Deployment Models
4. Reference & Architecture Models
5. Logical Model
6. Cloud Security Scope, Responsibilities, & Models
7. Areas of Critical Focus in Cloud Security

# Module 2

## Governance & Enterprise Risk Management

1. Tools of Cloud Governance
2. Enterprise Risk Management in the Cloud
3. Effects of various Service and Deployment Models
4. Cloud Risk Trade-offs and Tools



## Module 3

# Legal Issues, Contracts & Electronic Discovery

1. Legal Frameworks Governing Data Protection & Privacy
2. Cross-Border Data Transfer
3. Regional Considerations
4. Contracts & Provider Selection
5. Due Diligence
6. Third-Party Audits & Attestations
7. Electronic Discovery
8. Data Custody, Preservation & Collection
9. Response to a Subpoena or Search Warrant

## Module 4

# Compliance & Audit Management

1. Compliance in the Cloud
2. Compliance impact on cloud contracts
3. Compliance scope
4. Compliance analysis requirements
5. Audit Management in the Cloud
6. Right to audit
7. Audit scope
8. Auditor requirements

# Module 5

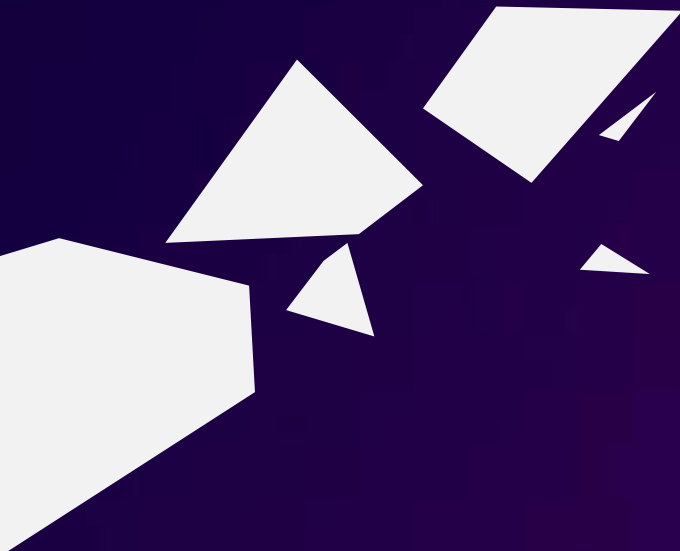
## Information Governance

1. Governance Domains
2. Six phases of the Data Security Lifecycle
3. Data Security Functions, Actors & Controls

# Module 6

## Management Plane & Business Continuity

1. Business Continuity & Disaster Recovery
2. Architect for Failure
3. Management Plane Security



# Module 7

## Infrastructure Security

1. Cloud Network Virtualization
2. Security Changes With Cloud Networking
3. Challenges of Virtual Appliances
4. SDN Security Benefits
5. Micro-segmentation and the Software Defined Perimeter
6. Hybrid Cloud Considerations
7. Cloud Compute and Workload Security

# Module 8

## Virtualization & Containers

1. Major Virtualizations Categories
2. Network
3. Storage
4. Containers

# Module 9

## Incident Response

1. Incident Response Lifecycle
2. How the Cloud Impacts IR

# Module 10

## Application Security

1. Opportunities & Challenges
2. Secure Software Development Lifecycle
3. How Cloud Impacts Application Design & Architectures
4. The Rise & Role of DevOps

# Module 11

## Data Security & Encryption

1. Data Security Controls
2. Cloud Data Storage Types
3. Managing Data Migrations to the Cloud
4. Securing Data in the Cloud

# Module 12

## Identity, Entitlement & Access Management

1. IAM Standards for Cloud Computing
2. Managing Users & Identities
3. Authentication & Credentials
4. Entitlement & Access Management

# Module 13

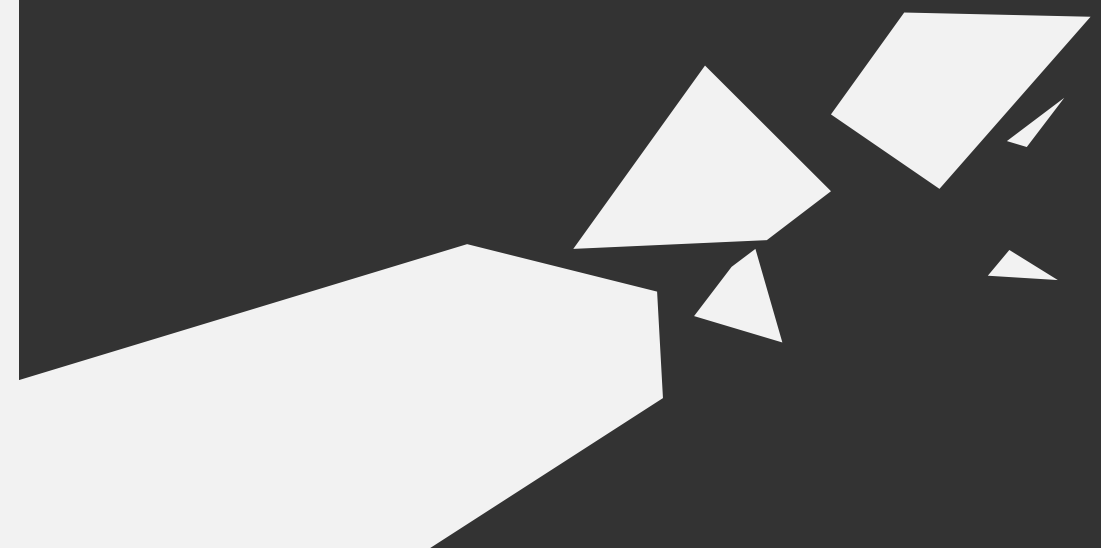
## Security as a Service

1. Potential Benefits and Concerns of SecaaS
2. Major Categories of Security as a Service Offerings

# Module 14

## Related Technologies


1. Big Data
2. Internet of Things
3. Mobile
4. Serverless Computing



# Connect Us!



Ducara help harnessing latest security trends & enhancing skills to simplify IT security complexity efficiently.

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