

# Certified DevSecOps Engineer

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GSDC's Certified DevSecOps Engineer Certification covers a broad range of topics like the dependency of the business value of DevOps upon DevSecOps, its ability to enable the business and support an organizational transformation with the ultimate goal of increasing productivity, reducing risk, and optimizing cost in the organization.



## ABOUT CERTIFICATION

The course content of DevSecOps Engineering Certification explains how DevOps security practices differ from other security approaches and provide an understanding of the application of data and security sciences. The attendees of this course understand the purpose, benefits, concepts, and vocabulary of DevSecOps. They become aware of its roles and how does it fit with a DevOps culture and organization.

At the ending point, participants will be able to use "security as code" with the intention of making security and compliance adaptable as a service.

The syllabus of this course is specially curated to teach the procedure of integrating security programs into DevOps practices and highlights the professional use of data and security science as the primary means of protecting the organization and customer.

## OBJECTIVES

The objective of DevSecOps Engineering Certification aims towards a thorough understanding of:

- The purpose, benefits, concepts & vocabulary of DevSecOps
- How DevOps security practices differ from other security approaches
- Business-driven security strategies
- Understanding and applying data and security sciences
- The use and benefits of Red and Blue Teams
- Integrating security into Continuous Delivery workflows
- How DevSecOps roles fit with a DevOps culture and organization

## Our Accreditation:



The Global Skill Development Council (GSDC) is the leading third-party, Vendor-neutral, international credentialing and certification organization. The Global Skill Development Council (GSDC) is proud to be ANSI Accredited Member. The American National Standards Institute (ANSI) is a private, non-profit organization that administers and coordinates the U.S. voluntary standards and conformity assessment system.

# COURSE SYLLABUS

## 1. Introduction

- ✓ What is DevOps?
- ✓ What is DevSecOps?
- ✓ Origin Stories
- ✓ Related Concepts
- ✓ Related Concepts
- ✓ Benefits of DevSecOps
- ✓ Principles of DevOps

## 2. Overview of Modern Application Development

- ✓ The era of Microservices
- ✓ Microservices vs Monoliths
- ✓ Microservices and APIs
- ✓ Pros and Cons of Microservices

## 3. Overview of Containerization

- ✓ Introduction to Docker Containers
- ✓ Development of Containerized Applications
- ✓ Benefits of Containerization
- ✓ Overheads of Containerization

## 4. Overview of Information Security

- ✓ Ethical Hacking vs Cyber Security vs Information Security
- ✓ Fundamentals of Information Security
- ✓ Job Roles

- ✓ Policy Management
- ✓ Password Management  
Encryption
- ✓ Secure Development LifeCycles
- ✓ Standards, Best Practices, and Regulations
- ✓ Threat Modelling and Risk Management

## 5. Overview of Cloud Computing and Infrastructure as Code

- ✓ What is Cloud?
- ✓ What is Cloud Computing?
- ✓ Cloud Service Providers
- ✓ Benefits of Cloud
- ✓ Cloud Service Models
- ✓ Cloud Deployment Models

## 6. Overview of Continuous Integration/ Continuous Deployment

- ✓ SDLC
- ✓ What is Integration?
- ✓ What is Delivery?
- ✓ What is Deployment?
- ✓ What is CI/CD?

## 7. Summing it up as DevSecOps



## GSDC Technical Advisory Board :

The GSDC is the leading certification association which brings together innovative organizations and founding thought-leaders as Technical Advisors from over 40 countries to design curriculum on Blockchain, Devops, Six Sigma & Agile Certifications.

## Further Information:

### Target Audience

- Anyone involved in Continuous Delivery toolchain architectures
- Compliance Team
- Delivery Staff
- DevOps Engineers
- IT Managers
- IT Security Professionals, Practitioners, and Managers

- Testers
- Maintenance and support staff
- Managed Service Providers
- Project & Product Managers
- Quality Assurance Teams
- Release Managers
- Scrum Masters
- Site Reliability Engineers
- Software Engineers

### BENEFITS

- Once you become a Certified DevSecOps Engineer, you'll be able to:
- Bring greater speed and agility for security teams
  - Respond to change and needs rapidly
  - Better collaborator and communicator.
  - Operate automated builds and quality assurance testing.
  - Identify vulnerabilities in code earlier than before
  - Deliver high-value work

### Certification Available:

- **Ethereum developer**
- **Blockchain Architect**
- **Hyperledger Developer**

### You may also be interested in:

- **Lean Six Sigma**
- **DevOps Practitioner**

Find out more online at [www.gsdccouncil.org](http://www.gsdccouncil.org)