

Certified Software Developer Advance (Java)



By obtaining GSDC Certifications, both current and aspiring software professionals can enhance their proficiency as members of software development teams and write sustainable code.

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ABOUT CERTIFICATION

Possessing a GSDC certificate enables individuals to apply a full-stack approach to actual software development projects.

Java is among the most sought-after programming languages and is versatile enough to generate software for various platforms. Applications coded in Java can operate on multiple operating systems, including Windows, Linux, and Mac OS. Java is mainly utilized in back-end development projects, such as big data technologies, mobile/desktop computing, and Android development, among others.

OBJECTIVES

1. To know the working understanding of software development.
2. To know the tools and best practices in software development.
3. To enhance your programming and technical skills.
4. How to write error-free code.
5. How to test and debug software and web application.
6. Use of the latest tools and concepts in application development.

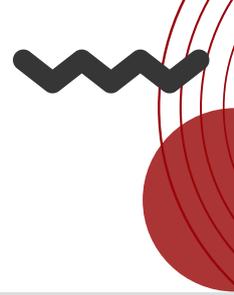
Our Accreditation:



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.

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COURSE SYLLABUS

1. Multithreading and Concurrency

- Threads and thread synchronization
- Inter-thread communication and coordination
- Java memory model
- Concurrent collections and frameworks
- Concurrency design patterns

2. Networking and Distributed Computing

- Socket programming
- TCP and UDP protocols
- HTTP protocol and web services
- Remote method invocation
- Java messaging services

3. Advanced Java Technologies

- JavaServer Pages (JSP)
- Servlets and filters
- Java Persistence API (JPA)
- Hibernate ORM framework
- Spring Framework

4. Functions, Tuples, Dictionaries, and Data Processing

- Writing functions in Python
- How functions communicate with their environment?
- Returning a result from a function
- Scopes in Python
- Tuples and dictionaries

5. Web Applications Development

- Model-View-Controller (MVC) design pattern
- Building web applications with Spring MVC
- Web security and authentication
- Web services development with JAX-RS

6. Software Engineering and Project Management

- Software development life cycle (SDLC)
- Agile methodologies (e.g. Scrum, Kanban)
- Software testing and quality assurance
- Source code management and version control



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.

Our Future Information

Target Audience

GSDC Certification is for all those who want to prove they can apply their core Java developer skills into real-life projects.

- Examples of typical job titles with 3-5 years of experience:
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 - Senior Software Developer
 - Senior Software Engineer
 - Senior Web Developer
 - Senior Android Developer
 - Senior Front-end Developer
 - Senior Full-Stack Developer

Find out more online at

www.gsdccouncil.org

