

Certified in IoT Foundation

Global Certification Program

- ✓ Globally lifetime Valid Certification
- ✓ Lifetime Valid Certification
- ✓ AI based Roleplay & Simulations
- ✓ Two Exam Attempts



An Overview

what you can expect from this program

The Certified IoT Foundation certification validates a fundamental understanding of the Internet of Things (IoT), including its architecture, applications, and security aspects. It covers IoT ecosystems, networking protocols, data analytics, and real-world use cases. This certification is ideal for professionals looking to enhance their knowledge of IoT implementation and its impact on industries.

Whether you're an IT professional, engineer, or business leader, this credential helps establish your expertise in IoT fundamentals, paving the way for advanced learning and career growth.

	Type	Online self-paced learning, Mocks
	Language	English (including subtitles)
	Access	12 months
	AI based Role play	Prepare yourself for career with AI based roleplay
	Digital certificate upon completion (2 Attempts)	
	Card Payment, Bank Transfer	
	Reading materials & Reference Templates	
	100% money back guarantee*	

GSDC Introduction

Welcome to the Global Skill Development Council (GSDC)!

As an independent, vendor-agnostic certification organization, we empower professionals worldwide.

Leading MNC organizations and global universities recognize our certifications. With a diverse portfolio of over 100+ programs, including L&D, HR, SRE, DevOps, Agile, Six Sigma, and Cyber Security, we've certified over 50,000 professionals.

Partnered with 50+ global training organizations, GSDC is your gateway to unlocking endless opportunities.

Join us today and let your skills soar to new heights!



Introduction

Certified IoT Foundation

Gain a solid foundation in the transformative world of the Internet of Things (IoT) with the GSDC Certified IoT Foundation.

Internet of Things certification validates your expertise in key IoT concepts, architectures, protocols, and security considerations, empowering you to excel in this rapidly evolving field. As organizations worldwide harness the potential of IoT to drive innovation and efficiency, the value of IoT certification has never been higher.

By earning the Certified IoT Foundation credential, you position yourself as a sought-after professional capable of leveraging IoT technology to deliver tangible results. Stay ahead of the curve and unlock exciting career opportunities with the GSDC Certified IoT Foundation, your gateway to success in the IoT landscape.



Learning Objective

- ☐ Explore IoT connectivity and communication technologies.
- ☐ Understand the integration of hardware and software.
- ☐ Gain insights into IoT deployment and scalability.
- ☐ Stand out as a trusted IoT professional in the industry.
- ☐ Develop expertise in IoT data analytics and visualization.
- ☐ Learn to design and implement IoT solutions.
- ☐ Become adept at addressing IoT privacy and ethical concerns.
- ☐ Contribute to the advancement of IoT technologies globally.

OBJECTIVES OF IOT FOUNDATION

Curriculum

1. Foundations of IoT and Its Ecosystem

- Introduction to IoT: From the Internet to Smart Things
- History, Evolution, and Types of IoT
- Classifications: Internet of Everything (IoE), Machine-to-Machine (M2M), Cyber-Physical Systems
- IoT in Numbers: Global Trends and Market Insights
- Key Application Domains: Smart Homes, Healthcare, Manufacturing, Transportation

2. IoT Architecture and Strategic Business Integration

- Core IoT Architecture: Layers and Components
- IoT Business Drivers and Digital Transformation Enablers
- Business Benefits, Challenges, and Implementation Barriers
- Strategic IoT Monetization Models and Revenue Streams
- Market Opportunities and Emerging Business Use Cases

3. Components of IoT Systems and Networking

- Architectural Layers: Perception, Network, Middleware, and Application
- Sensors, Actuators, Microcontrollers, and Gateways
- Communication Protocols: Wi-Fi, Bluetooth, ZigBee, NFC
- IoT Network Requirements: Scalability, Security, and Real-Time Communication
- Smart Environments and Connected Applications in Urban and Industrial Contexts

4. Enabling Technologies in the IoT Ecosystem

- Big Data Analytics and Real-Time Insights from IoT Devices
- Cloud Computing: Storage, Processing, and IoT-as-a-Service Models
- Mobility and Edge Computing in Connected Environments
- Role of Social Media Integration in IoT Systems
- Platform-as-a-Service (PaaS) for Scalable IoT Deployments

5. IoT Security, Governance, and Compliance Challenges

- Common Security Threats in IoT Environments
- Root Causes of IoT Breaches and System Vulnerabilities
- Device, Network, and Application-Level Security Risks
- Privacy Challenges and Ethical Considerations in Data Collection
- Governance Frameworks and Regulatory Compliance (GDPR, NIST, ISO/IEC)

6. Data Management, Privacy, and Ethical Considerations

- Data Lifecycle Management in IoT Networks
- Ethical Handling of Personal and Behavioral Data
- Privacy-Preserving Mechanisms and Anonymization
- Consent Management and User Trust
- Aligning IoT Data Practices with International Privacy Standards

7. IoT in Action: Applications Across Industry Verticals

- Smart Cities: Infrastructure, Traffic, and Utilities
- Smart Agriculture: Precision Farming and Sensor Networks
- Healthcare and Wearables: Patient Monitoring and Remote Diagnostics
- Industrial IoT (IIoT): Predictive Maintenance and Smart Manufacturing
- Retail and Logistics: Connected Inventory and Real-Time Tracking

8. Tools, Certification Readiness, and Industry Case Studies

- Introduction to IoT Development Platforms: Arduino, Raspberry Pi, Node-RED
- IoT Simulators and Device Emulators for Lab Practice
- Certification Paths: IoT Practitioner, Cisco IoT, Azure IoT Developer
- Real-World Case Studies from Healthcare, Transportation, and Manufacturing
- Final Project: Design and Present a Scalable IoT Solution Architecture

Unleash Unlimited Potential

All GSDC certifications come with a lifetime membership, offering you a world of benefits to fuel your professional growth.



Expert Created Learning Material

Learn from knowledge shared by Top Industry Experts with 15+ yrs of experience.



Access to Global Conferences

Be a part of GSDC thriving learning community around the world, sharing knowledge from across the world.



Speaker invites @ GSDC Webinar Series

Share your knowledge with world at GSDC global webinar series, share your expertise and learn from others.



Downloadable Resources

Get access to templates and reference documents which will help you to do your day to day tasks easier.



Certificate Upgrades

Get complimentary certificate upgrades to keep up with the latest updates in processes and frameworks.



Newsletters, blogs with industry insights

Get newsletters, announcements and articles curated by experts direct to your inbox.



AI Based Role Play

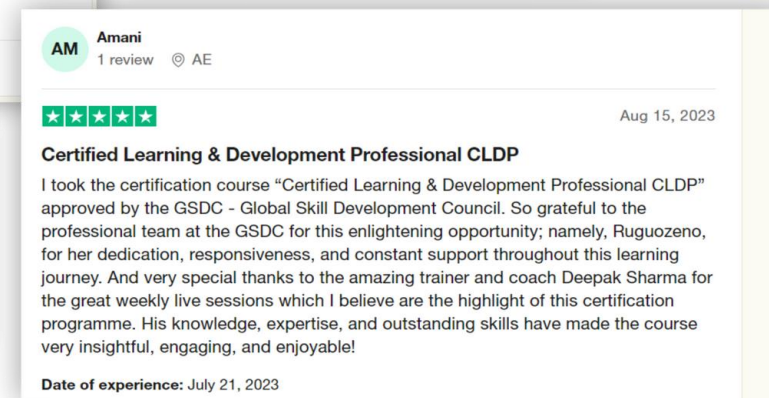
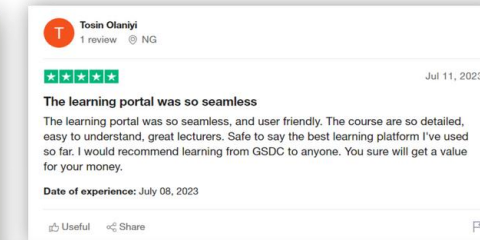
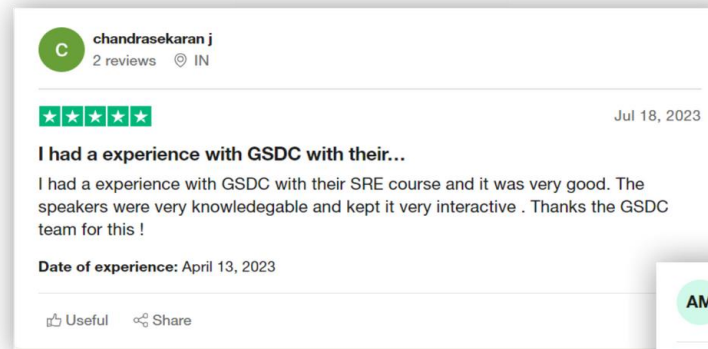
Learn to implement applicability of knowledge with real life simulation based games.

What You Get In this Certification Program?

- Engaging digital learning videos
- Exclusive access to Global thought leader sessions & case studies
- Downloadable and implementable resources to support practical application
- Two mock exams with unlimited attempts for comprehensive preparation
- Certification exam voucher with 1-year validity
- Two attempts for certification exam

What our Candidates Saying?

We greatly appreciate the feedback from our program participants on Trustpilot. With an impressive average rating of 4.7 out of 5, their reviews highlight the positive experiences and value they have gained from our program.



Expert-Led Generative AI: Learn, Connect, Grow



☐ **Interactive Learning Experience:**

Ask questions, discuss case studies, and receive implementation guidelines directly from expert, enhancing your understanding of complex AI topics



☐ **Lifelong Learning Journey:**

Enjoy lifetime access to these sessions, ensuring you stay updated with the latest trends and continuously grow your AI expertise



☐ **Career-Boosting Network:**

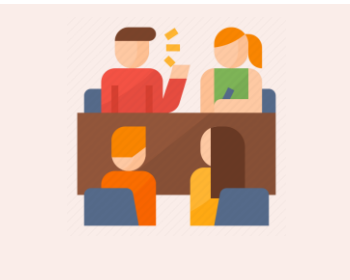
Connect with fellow professionals in the field, creating valuable relationships that can propel your career in the world of Generative AI

AI-Based Interview Practice Platform



- ☐ Engage With Real Time AI Interview Questions.
- ☐ Practice Questions Tailored with Your Expertise.
- ☐ Validate your Knowledge of subject Matter.

Capstone Project



- ☐ Apply Your Skills in Real World Scenario.
- ☐ Learn Methodologies Aligned to Your Expertise.
- ☐ Validate Skills and Knowledge Gained through the Certification.
- ☐ Showcase Expertise via a Capstone Project.

Enrollment-Options

Option-1

Certified in IoT Foundation With E-Learning

**Fast-track your career by learning a new
skill and earning a certificate**

- ✓ Access expert videos and weekend 2-hour live sessions every Saturday with lifetime access
- ✓ 1 Certification Program
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ E-Learning Library Access
- ✓ Downloadable Resources-Book of Knowledge, Templates
- ✓ GSDC Membership

ENROLL NOW

Option-2

Bundle

**Create your own bundle with
3 certification program**

- ✓ 3 Certification Program
- ✓ Access expert videos and weekend 2-hour live sessions every Saturday with lifetime access
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ E-Learning Library Access
- ✓ Downloadable Resources-Book of Knowledge, Templates
- ✓ GSDC Membership

ENROLL NOW

Option-1 Certified in IoT Foundation with E-Learning

Certified In IoT Foundation with Digital Learning

Fast-track your career by learning a new skill and earning a certificate

- ✓ E-Learning from Industry Experts
- ✓ 1 Certification Program
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ Downloadable Resources



Option-2

Make Your Own Certified in IoT Foundation Bundle

**Enrich your skills and advance your career with our exclusive bundle.
Get certified in the following:**

- Certified Cloud Computing Foundation
- Certified Emotional Intelligence
- Ethical Hacking Foundation Certification
- Certified Cyber Security Foundation
- Certified Big Data Foundation

Expand your expertise, design impactful learning experiences, and master your skills.

**BUY ANY
3
CERTIFICATIONS**

[Claim Bundle Here !!!](#)

Unlock Workforce Potential Through Skill Validation!

Enroll now with the code **UPSKILL10** To avail 10% discount.

Register Now



100% Money Back Guarantee!

At GSDC, quality is our top priority. Our certification programs are designed to foster professional growth and ensure learning satisfaction. If you do not pass the certification exam after two attempts, we offer a 100% money-back guarantee.

- No Questions Asked*
- 100% Amount Refund*
- No Processing Fees*

Thank You



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