

Generative AI In Manufacturing Certification

Global Certification Program

- ✓ Globally Recognized Certification
- ✓ Access to exclusive resources, boot camps, and summits
- ✓ AI based Roleplay & Simulations
- ✓ Two Exam Attempts



An Overview

what you can expect from this program

The GSDC Generative AI in Manufacturing Certification (GAIMC) validates your ability to apply generative AI in real-world manufacturing environments. This certification focuses on equipping professionals with the knowledge and skills to optimize production processes, strengthen quality control, and streamline operational workflows using AI-powered solutions.

Through this program, you'll gain hands-on experience with tools, templates, and industry-driven case studies designed to accelerate your application of generative AI in manufacturing. From predictive maintenance to reducing downtime and boosting efficiency, GAIMC provides the practical insights needed to implement AI innovations that deliver measurable results.

Earning the GAIMC credential showcases your expertise in harnessing AI technologies to transform industrial operations. It positions you as a forward-thinking professional capable of leading digital transformation initiatives and driving competitive advantage.

| | | |
|---|---|--|
|  | 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 150+ programs, including L&D, HR, SRE, DevOps, Agile, Six Sigma, and Cyber Security, we've certified over 250,000 professionals.

Partnered with 100+ global training organizations, GSDC is your gateway to unlocking endless opportunities.

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



Introduction

Generative AI In Manufacturing Certification

The GSDC Generative AI In Manufacturing Certification validates your expertise in applying generative AI in manufacturing to optimize production, quality control, and operational workflows. This AI in manufacturing certification equips professionals with practical skills to implement AI-driven solutions that enhance efficiency, reduce downtime, and enable predictive maintenance.

By earning this certificate for AI manufacturing, you gain access to ready-to-implement templates, hands-on resources, and real-world use case studies that accelerate your understanding of generative AI manufacturing applications. This credential demonstrates your ability to leverage AI in manufacturing technology, positioning you to lead innovative initiatives and drive measurable impact in modern industrial operations.



Learning Objective

- ❑ Validate knowledge of generative AI in manufacturing applications
- ❑ Learn from practical industrial use case studies
- ❑ Apply AI manufacturing tools in real scenarios
- ❑ Access ready-to-implement templates for workflows
- ❑ Understand ethical and operational compliance in AI use
- ❑ Strengthen professional skills for industrial innovation
- ❑ Demonstrate capability with AI in manufacturing certification

OBJECTIVES OF GENERATIVE AI IN MANUFACTURING

Curriculum

Module 1: Foundations of Generative AI in Manufacturing

- Fundamentals of generative AI
- LLMs, SLMs, and Agentic AI (with focus on domain-specific manufacturing features)
- Role of AI in Industry 4.0 and smart factories
- Industry adoption trends
- Benefits, limitations, and challenges (cost, skills, data availability)
- Hands-on: Exploring ChatGPT (free/enterprise) and Gemini (free)

Module 2: Generative Design and Product Development

- Principles of AI-driven generative design
- Creating product prototypes with AI
- Lightweight material design and cost reduction
- Case studies: Aerospace and automotive applications

Module 3: Predictive Maintenance and Process Optimization

- Predicting equipment failure with AI
- Building predictive maintenance workflows
- Process simulation and optimization using generative models
- Reducing downtime and increasing operational efficiency
- Hands-on: Predictive models with sample datasets
- Demo: Upload a maintenance or quality log and generate a risk summary

Module 4: Quality Control and Defect Detection

- AI-driven defect detection with computer vision
- Using synthetic defect data for better inspection
- Reducing error rates in quality checks
- Real-time detection in electronics and heavy machinery
- Hands-on: Training a visual defect detection model

Module 5: Supply Chain, Inventory, and Documentation Automation

- Demand forecasting and inventory optimization with AI
- Scenario simulation for supply chain resilience
- Case study: Lean manufacturing supply chains
- Hands-on: Demand planning with AI tools
- Automating SOPs, checklists, and manuals with ChatGPT/Claude
- Conversational search across public standards with Perplexity AI
- Demo: Build a “Knowledge Bot” using Google Sheets + ChatGPT

Module 6: Agentic AI Workflows and No-Code Automation

- Introduction to Agentic AI in manufacturing
- Using Make.com or Zapier (free plans) to automate tasks
- Integrating Google Sheets, Gmail, and ChatGPT for automated reporting
- Demo: No-code pipeline for safety incident analysis

Module 7: EHS, Sustainability, and Compliance

- AI for EHS (Environment, Health, Safety) management
- Generating sustainability reports from operational data
- Summarizing regulations with Perplexity AI
- Data privacy, security, and intellectual property in AI
- Governance frameworks and workforce reskilling
- Demo: Draft a compliance report with one prompt

Module 8: Prompting and Hands-On Labs

- Prompt engineering for manufacturing use cases (supply chain, audits, safety)
- Templates for operational efficiency
- Extracting insights from CSV/text files with ChatGPT Advanced Data Analysis (trial)
- Demo: Upload a production dataset and generate AI-driven insights

Module 9: Deployment, Strategy, and Roadmap

- Transitioning from prototype to production systems
- Cloud and edge deployment strategies
- Continuous monitoring and retraining of AI models
- Case studies of AI deployment in manufacturing plants
- Identifying high-value AI opportunities without vendor lock-in
- Building a 90-day AI Opportunity Canvas
- Demo: Co-create an AI roadmap using Miro (free plan)

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.



Global Skill Development Council - GSDC
 Reviews 178 • Excellent
 4.7 ⓘ
 VERIFIED COMPANY



chandrakaran j
 2 reviews IN
 Jul 18, 2023
 ★★★★★
I had a experience with GSDC with their...
 I had a experience with GSDC with their SRE course and it was very good. The speakers were very knowledgeable and kept it very interactive. Thanks the GSDC team for this!
 Date of experience: April 13, 2023



Tosin Olaniji
 1 review NG
 Jul 11, 2023
 ★★★★★
The learning portal was so seamless
 The learning portal was so seamless, and user friendly. The course are so detailed, easy to understand, great lecturers. Safe to say the best learning platform I've used so far. I would recommend learning from GSDC to anyone. You sure will get a value for your money.
 Date of experience: July 08, 2023



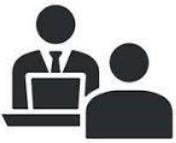
Amani
 1 review AE
 Aug 15, 2023
 ★★★★★
Certified Learning & Development Professional CLDP
 I took the certification course "Certified Learning & Development Professional CLDP" approved by the GSDC - Global Skill Development Council. So grateful to the professional team at the GSDC for this enlightening opportunity; namely, Ruguzeno, for her dedication, responsiveness, and constant support throughout this learning journey. And very special thanks to the amazing trainer and coach Deepak Sharma for the great weekly live sessions which I believe are the highlight of this certification programme. His knowledge, expertise, and outstanding skills have made the course very insightful, engaging, and enjoyable!
 Date of experience: July 21, 2023



Majid
 1 review IN
 Sep 25, 2023
 ★★★★★
GSDC has been doing a great job in making learners gain knowledge!
 GSDC has been doing a great job in making the learners find right opportunities to gain knowledge for business! These two days were filled with knowledge and insights!
 Date of experience: September 25, 2023



Expert-Led Generative AI: Learn, Connect, Grow



❑ **Expert-Led Sessions:**

Engage in weekly 2-hour live sessions with industry expert, gaining cutting-edge insights and practical knowledge in Generative AI



❑ **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:**

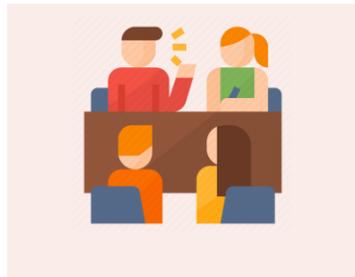
Connect with fellow professionals in the field, creating valuable relationships that can propel your career in the world of Generative AI

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

Certification Generative AI In Manufacturing with E-learning

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

- ✓ Access expert videos and weekly 2-hour live sessions
- ✓ 1 Certification Program
- ✓ Two Exam Attempts
- ✓ Globally Recognized 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 weekly 2-hour live sessions
- ✓ Two Exam Attempts
- ✓ Globally Recognized Certification
- ✓ E-Learning Library Access
- ✓ Downloadable Resources-Book of Knowledge, Templates
- ✓ GSDC Membership

ENROLL NOW

Option-1 Certified Generative AI In Manufacturing with E-Learning

Certified Generative AI In Manufacturing 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 Certification Generative AI In Manufacturing Bundle

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

- Certified Learning And Development Professional
- Certified AI Tool Expert Certification
- Certification In Generative AI In Project Management
- Certified Procurement Professional
- Certified Generative AI for Supply Chain Management

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

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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