



Go Programming Program

Build Fast, Scalable & Concurrent Systems with Go.

Go (also known as Golang), developed by Google, is a statically typed, compiled language known for its **simplicity, speed, and built-in support for concurrency**. It's used to build **web servers, distributed systems, command-line tools, and cloud-native apps**, and powers platforms like Docker and Kubernetes.

At **Certed Technologies**, our **Go Programming Program** is designed to help you master the essentials of Go development, from basic syntax to concurrent programming and API development.



Why Go? Why Now?

Go has become the **language of choice for modern infrastructure and backend development**.

Why Go is rising in 2025:

- ⚡ Blazing-fast performance with minimal memory footprint
 - ☁ Ideal for **cloud-native apps, microservices, and DevOps tools**
 - 🔄 Built-in support for **concurrency via Goroutines and Channels**
 - 🛠 Powers popular tools like **Docker, Kubernetes, and Terraform**
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Learn from Backend & DevOps Engineers

This course is taught by **experienced Go developers** working in cloud, system programming, and microservices architecture, bringing you real-world insights into building production-ready applications.



Program Highlights

Feature	Details
Duration	1.5 Months / 50–60 Hours
Delivery Mode	Hybrid (Online + Offline)
Tools Covered	Go Compiler, VS Code, Git, Postman, Docker (Intro)
Project Work	3–4 Mini Projects + 1 Capstone Project
Certifications	Certed Technologies Certificate + Go Developer Badge
Career Support	Resume Reviews, Interview Prep, Backend Portfolio Projects

What You'll Learn

Module 1: Introduction to Go

- History and Use Cases
- Installing Go & Setting Up Workspace
- Go Modules & Environment

Module 2: Basics of Go Programming

- Data Types, Variables, Constants
- Control Flow: If, Switch, Loops
- Functions, Defer, Panic & Recover

Module 3: Structs, Arrays, Slices, and Maps

- Arrays and Slices
- Structs and Composition
- Maps and Basic Algorithms

Module 4: Object-Oriented & Modular Go

- Interfaces in Go
- Embedding & Composition
- Creating Packages and Modules

Module 5: Concurrency in Go

- Goroutines and Channels
- Buffered vs Unbuffered Channels
- WaitGroups and Mutex for Synchronization

Module 6: REST API Development with Go

- HTTP Package and JSON Marshalling
- Building RESTful Endpoints
- CRUD with Go and a Database (SQLite or PostgreSQL)

Module 7: Capstone Project

Capstone Project Ideas:

- Task Manager REST API
- URL Shortener with SQLite Backend
- CLI Tool for File Compression
- Chat Server Using Goroutines

 **Who Should Enroll?**

This course is perfect for:

- BTech/MCA/BCA students interested in backend programming
 - DevOps aspirants looking to automate tasks and build internal tools
 - Backend developers wanting to switch from Java/Python to Go
 - Professionals working on cloud, Docker, or Kubernetes-based stacks
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Career Outcomes

Mastering Go opens doors to:

- Go Developer / Golang Backend Developer
- Cloud Platform Engineer
- Microservices Engineer
- DevOps Tooling Developer
- Systems Programmer

Key Industries:

Cloud Computing | FinTech | DevOps | Web3 | SaaS | Gaming Backend | Infrastructure



Tools & Platforms Covered

Go Compiler | VS Code | Postman | SQLite/PostgreSQL | GitHub | Docker (Intro) | REST APIs | JSON



Sample Project Ideas

- REST API for Notes App
 - Microservice for Payment Processing
 - File Uploader API
 - Concurrent Web Scraper
 - Inventory Management CLI Tool
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Certification

Earn a **Certed Technologies Certificate** and **Go Developer Badge**, showcasing your ability to build reliable, fast, and concurrent backend systems.

What Makes This Course Unique?

- ✓ Strong Focus on Concurrency
 - ✓ REST API + JSON + DB Projects
 - ✓ Practical Tools: Git, Postman, SQLite
 - ✓ Future-Ready for DevOps & Cloud Roles
 - ✓ Excellent Foundation for Kubernetes/Docker Engineers
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Upcoming Batch

Batch Start Date	Mode	Status
15 July 2025	Online	Open
22 July 2025	Offline	Few Seats Left
05 August 2025	Hybrid	Open

Custom Go Training for Colleges & Corporates

Ideal for:


- Colleges preparing students for **cloud & backend development**
- Tech companies looking to upskill their **DevOps/backend teams**
- Teams transitioning to **cloud-native microservices in Go**

Customization Options

- Add Go + Docker Combo for DevOps
- Extend to Go + gRPC + Kubernetes Track
- Use internal APIs as project templates
- Weekly Sprints + Code Review Sessions

Talk to an Advisor

 Email: support@certedtechnologies.com

 Call/WhatsApp: +91-8920158923 | +91-9009015026

Ready to Go with Go?

“Go is simplicity redefined—perfect for building modern, scalable, and high-performance systems.”

Join the world of backend engineering and cloud-native development with Golang.

[ Enroll Now] [ Request a Callback]

Frequently Asked Questions (FAQs)

1. **Do I need prior programming knowledge to learn Go?**

Yes, basic knowledge of programming (in C/Python/Java) is recommended.

2. **Is this course backend-focused?**

Yes. It focuses on core Go programming + REST APIs and concurrent server development.

3. **Will I learn concurrency in this course?**

Absolutely. Goroutines and Channels are a key module in this course.

4. **Is this course useful for DevOps roles?**

Yes. Go is widely used in DevOps and automation tools.

5. **Can I build APIs and deploy them?**

Yes. You'll build functional REST APIs and connect them with databases.
