



# Getting Started with Terraform for Google Cloud

## Overview

This course provides an introduction to using Terraform for Google Cloud. It enables learners to describe how Terraform can be used to implement infrastructure as code and to apply some of its key features and functionalities to create and manage Google Cloud infrastructure.

Learners will get hands-on practice building and managing Google Cloud resources using Terraform.

When you complete this course, you can earn the badge displayed here! View all the badges you have earned by visiting your profile page. Boost your cloud career by showing the world the skills you have developed!

## Objectives

- Define the business need for infrastructure as code and the benefits of using it in your environment.
- Explain the features and functionalities of Terraform.
- Use Terraform resources, variables, and output values to create Google Cloud infrastructure resources.
- Use Terraform modules to build reusable configurations.
- Explain Terraform state and its importance.

## Prerequisites

- Completed Google Cloud Fundamentals: Core Infrastructure.
- Have basic programming skills and familiarity with using Command Line Interfaces (CLI).
- Have general familiarity with Google Cloud.

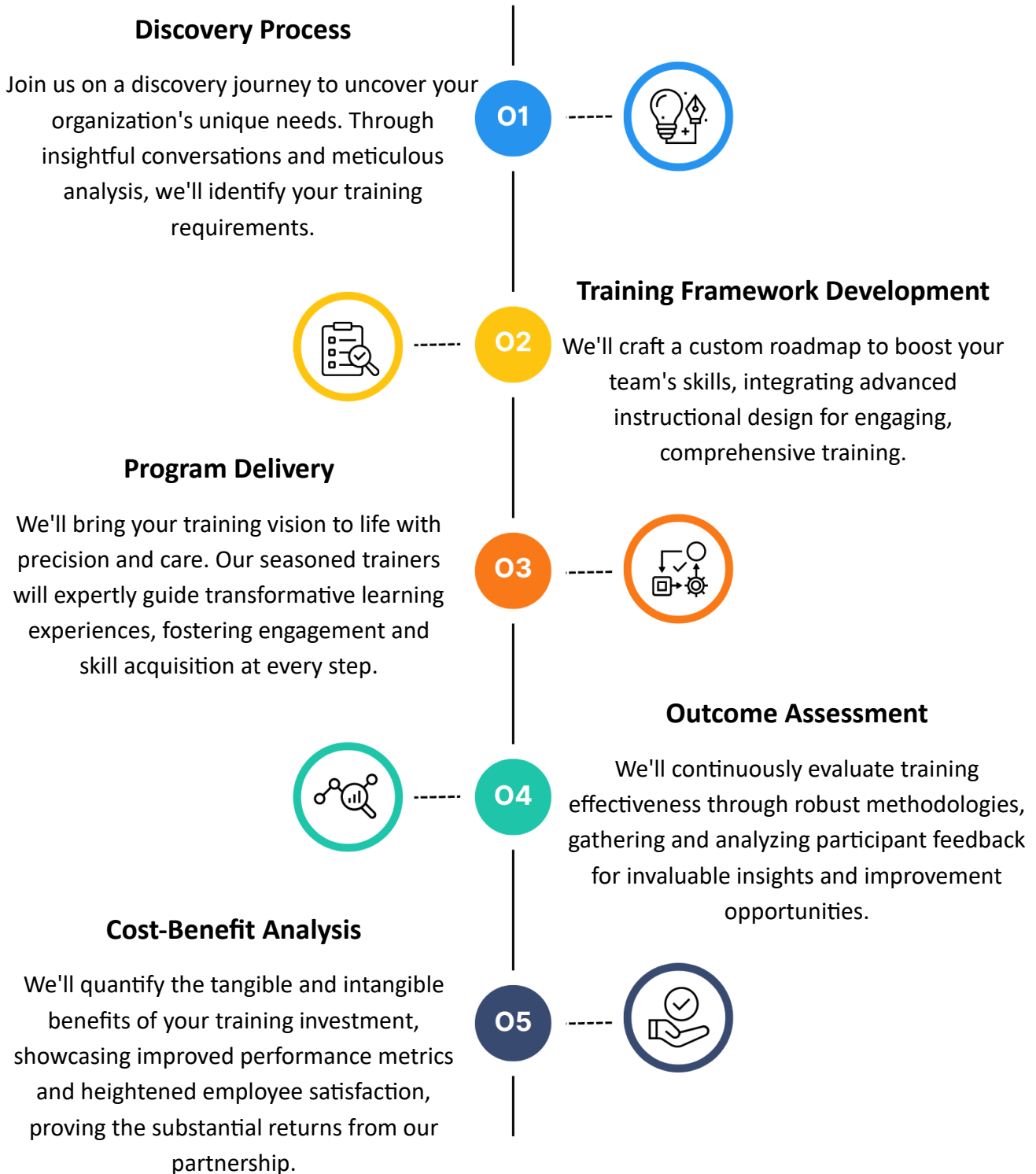
## Course Duration

- 1 Day – 8 Hours

## Career Role

- All Technical Professionals

# Creating Tailor - Made Training Programs to Meet Your **Specific Goals**



## Course Outline

"Getting Started with Terraform for Google Cloud" is a comprehensive introductory course designed for IT professionals, cloud architects, and DevOps engineers who are eager to learn how to efficiently manage Google Cloud infrastructure using Terraform. This course provides a foundational understanding of Terraform's capabilities, enabling participants to automate and streamline the provisioning and management of cloud resources.

### Module 1: Introduction to Terraform for Google Cloud

- Lesson: Module Overview
- Lesson: Infrastructure as code
- Lesson: Terraform Overview
- Lesson: Using Terraform

### Module 2: Terms and concepts

- Lesson: Module Overview
- Lesson: Terraform Configurations and the HashiCorp Language
- Lesson: Author Phase Terms and Concepts
- Lesson: Terraform Commands
- Lesson: The Terraform Validator
- **Lab:** Infrastructure as Code with Terraform

### Module 3: Writing Infrastructure Code for Google Cloud

- Lesson: Module Overview
- Lesson: Introduction to Resources
- Lesson: Meta-arguments for Resources
- Lesson: Resource Dependencies
- Lesson: Variables
- Lesson: Variables Best Practices
- Lesson: Output Values
- Lesson: Terraform Registry and Cloud Foundation Toolkit
- **Lab:** Creating Resource Dependencies with Terraform

### Module 4: Organizing and Reusing Configuration with Terraform Modules

- Lesson: Module Overview
- Lesson: Introduction to Terraform modules
- Lesson: Modules use cases and benefits
- Lesson: Reuse Configurations with Modules
- Lesson: Variables and Outputs
- **Lab:** Automating the Deployment of Infrastructure Using Terraform

**Module 5: Introduction to Terraform State**

- Lesson: Module Overview
- Lesson: Introduction to Terraform state
- Lesson: Storing State File
- Lesson: Terraform State Best Practices
- **Lab:** Creating a Remote Backend

# Indus Tech Services

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## Who We Are....

Indus Tech Services is an IT company that specializes in providing comprehensive training, consulting & implementation services for software solutions designed to address the diverse business challenges faced by organizations today. With a passion for technology and a deep understanding of business processes, Indus Tech is committed to empowering businesses to optimize their operations, boost productivity, and drive sustainable growth.

## Indus Tech Services and Google Cloud Partnership

At **Indus Tech Services**, our partnership with **Google Cloud (GCP)** provides unparalleled consulting and training services to help you harness the full potential of cloud technology. Our collaboration aims to deliver the following benefits to your organization.

- **Customized Training and Workshops:** We offer tailored training programs and workshops designed to empower your IT team and end users. Our expert-led sessions ensure your team gains the skills and knowledge needed to maximize the benefits of Google Cloud solutions.
- **Expert Consulting Services:** Our team of certified Google Cloud professionals provides strategic consulting to align your cloud initiatives with your business goals. From cloud strategy development to architectural design, we offer expert guidance to help you navigate the complexities of cloud adoption and optimization.
- **Seamless Implementation and Integration:** We specialize in the seamless implementation and integration of Google Cloud services into your existing infrastructure. Our proven methodologies and best practices ensure a smooth transition to the cloud, minimizing disruption and maximizing efficiency.

## Why Choose Us...

From time to time, life serves up a profound nudge, urging us to step beyond our routines and make a difference in the world. Indus Tech Services emerged from one such compelling wake-up call. We are not just a company; we are a dedicated force with a belief in providing solutions to organizations, regardless of their size, and we infuse a human touch into everything we do.

## Our Expertise

With over 25 years of collective experience navigating the intricacies of daily business transactions, irrespective of geographical, cultural, time zone, or language barriers, our team has honed their expertise to meet any challenge head-on. This wealth of experience has armed our resources with an unparalleled understanding and skill set to tackle a broad spectrum of obstacles.

## Training

With two decades of unwavering commitment and a global footprint, our company is a true pioneer in the fields of linguistic, transactional, technical, and behavioural training for some of the world's largest corporate entities. Our unparalleled expertise has been refined through years of dedication and innovation, making us the go-to choice for businesses seeking transformative training solutions.

## Consulting

Our company has been at the forefront of providing world-class IT consulting services to organizations spanning the globe. With an extensive and proven track record, we have honed our expertise to meet the ever-evolving technological needs and challenges faced by businesses, regardless of their scale or industry.

## Implementation

Our experience covers a broad spectrum of IT implementation services, including system integration, software deployment, network architecture, cloud migration, and infrastructure setup. We understand that the successful execution of IT projects is pivotal to an organization's growth and efficiency. Therefore, we bring a depth of knowledge and a commitment to delivering results that set us apart.

To know more contact us at [info@industechservices.com](mailto:info@industechservices.com) or call us at +91 - 99961 61170.