



Getting Started with Google Kubernetes Engine

Overview

Welcome to the Getting Started with Google Kubernetes Engine course. If you're interested in Kubernetes, a software layer that sits between your applications and your hardware infrastructure, then you're in the right place! Google Kubernetes Engine brings you Kubernetes as a managed service on Google Cloud.

The goal of this course is to introduce the basics of Google Kubernetes Engine, or GKE, as it's commonly referred to, and how to get applications containerized and running in Google Cloud. The course starts with a basic introduction to Google Cloud, and is then followed by an overview of containers and Kubernetes, Kubernetes architecture, and Kubernetes operations.

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

- Discuss the differences among Google Cloud compute platforms.
- Discuss the components and architecture of Kubernetes.
- Identify how Google manages Kubernetes orchestration.
- Create and manage Google Kubernetes Engine clusters by using the Google Cloud console and `gcloud/kubectl` commands.

Prerequisites

This course has no prerequisite courses. Learners should have a basic proficiency with command-line tools, Linux operating system environments, and web server technologies like Nginx. Experience with systems operations, including deploying and managing applications, either on-premises or in a public cloud environment is recommended.

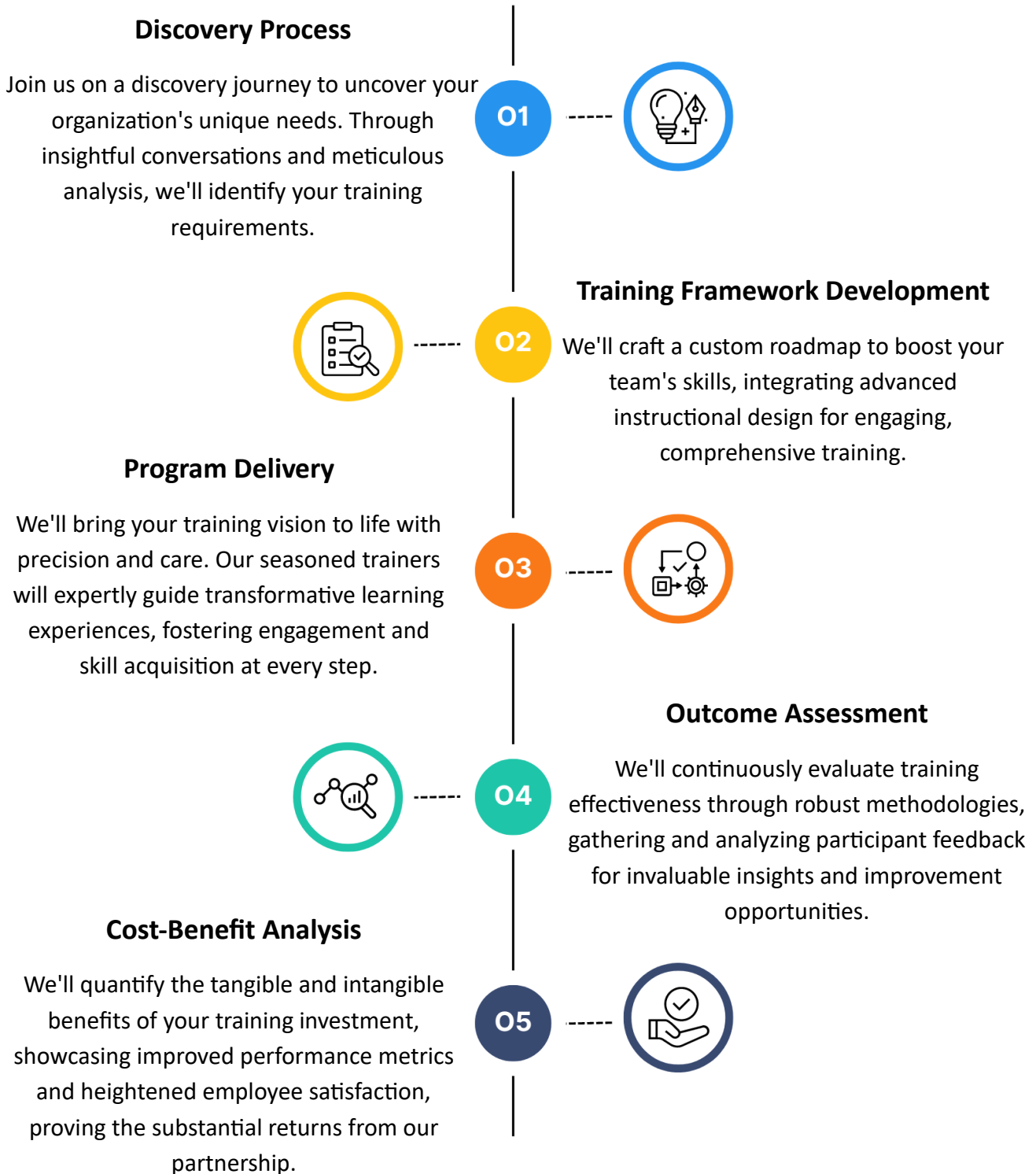
Course Duration

- 1 Day – 8 Hours

Career Role

- All Technical Professionals

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



Course Outline

"Getting Started with Google Kubernetes Engine" is an introductory course designed to provide participants with a foundational understanding of Kubernetes and Google Kubernetes Engine (GKE). This course covers the essential concepts and practical skills required to deploy, manage, and scale containerized applications using GKE. Whether you are a developer, system administrator, or IT professional, this course will equip you with the knowledge to effectively utilize Kubernetes in the Google Cloud environment.

Module 1: Introduction to Google Cloud

- Lesson: Introduction
- Lesson: Cloud computing and Google Cloud
- Lesson: Google Cloud compute offerings
- Lesson: The Google network
- Lesson: Resource management
- Lesson: Billing
- Lesson: Interacting with Google Cloud
- **Lab:** Accessing the Google Cloud Console and Cloud Shell

Module 2: Introduction to Containers and Kubernetes

- Lesson: Introduction
- Lesson: Containers
- Lesson: Container images
- Lesson: Kubernetes
- Lesson: Google Kubernetes Engine
- **Lab:** Working with Cloud Build

Module 3: Kubernetes Architecture

- Lesson: Introduction
- Lesson: Kubernetes concepts
- Lesson: Kubernetes components
- Lesson: GKE Autopilot and GKE standard
- Lesson: Object management
- **Lab:** Deploying GKE Autopilot Clusters

Module 4: Kubernetes Operations

- Lesson: Introduction
- Lesson: The Kubectl command
- Lesson: Introspection
- **Lab:** Deploying GKE Autopilot Clusters from Cloud Shell

Indus Tech Services

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 or call us at +91 - 99961 61170.