Getting Started with Google Kubernetes Engine

Category: Software Development & Programming | **Vendor:** Google Cloud

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This course introduces participants to creating and deploying containerized applications on Google Kubernetes Engine (GKE). Through a combination of presentations, demos, and hands-on labs, participants explore and deploy solution elements, including infrastructure components such as pods and containers.

About This Course

This course introduces participants to creating and deploying containerized applications on Google Kubernetes Engine (GKE). Through a combination of presentations, demos, and hands-on labs, participants explore and deploy solution elements, including infrastructure components such as pods and containers.

Who Should Attend

This class is intended for the following participants:

- Application developers, Cloud Solutions Architects, DevOps Engineers, IT managers.
- Individuals using Google Cloud Platform to create new solutions or to integrate existing systems, application environments, and infrastructure with the Google Cloud Platform.

Prerequisites & Entry Requirements

General Prerequisites:

To get the most of out of this course, participants should have:

- Basic proficiency with command-line tools and Linux operating system environments, as well as Web server
- Systems Operations experience including deploying and managing applications, either on-premises or in a public cloud environment.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

At the end of the course, you will be able to:

- Understand how software containers work.
- Understand the architecture of Kubernetes.
- Understand the architecture of Google Cloud.
- Understand how pod networking works in Google Kubernetes Engine.
- Create and manage Kubernetes Engine clusters using the Google Cloud Console and gcloud/kubectl commands.

Detailed Course Outline

Module 1 - Introduction to Google Cloud

- Use the Google Cloud Console
- Use Cloud Shell
- Define Cloud Computing
- Identify Google Cloud compute services
- Understand Regions and Zones
- Understand the Cloud Resource Hierarchy
- Administer your Google Cloud Resources
- 1 lab and 1 quiz

Module 2 - Containers and Kubernetes in Google Cloud

- Create a Container Using Cloud Build

- Store a Container in Container Registry

- Understand the Relationship Between Kubernetes and Google Kubernetes Engine (GKE)

- Understand how to Choose Among Google Cloud Compute Platforms

- 1 lab and 1 quiz

Module 3 - Kubernetes Architecture

- Understand the Architecture of Kubernetes: Pods, Namespaces

- Understand the Control-plane Components of Kubernetes

- Create Container Images using Cloud Build

- Store Container Images in Container Registry

- Create a Kubernetes Engine Cluster

- 1 lab and 1 quiz

Module 4 - Introduction to Kubernetes Workloads

- The kubectl Command

- Introduction to Deployments

- Pod Networking

- Volumes Overview, Containers and Kubernetes in Google Cloud, Introduction to Google Cloud, ?Kubernetes Architecture, ?Continuous? ?Deployment with? ?Jenkins, Introduction to Kubernetes Workloads

Skills You Will Learn:

At the end of the course, you will be able to:

- Understand how software containers work.
- Understand the architecture of Kubernetes.
- Understand the architecture of Google Cloud.
- Understand how pod networking works in Google Kubernetes Engine.
- Create and manage Kubernetes Engine clusters using the Google Cloud Console and gcloud/kubectl commands.

Frequently Asked Questions

Q: What delivery options are available for Getting Started with Google Kubernetes Engine?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Getting Started with Google Kubernetes Engine course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Getting Started with Google Kubernetes Engine training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Getting Started with Google Kubernetes Engine?

Yes, we provide corporate training, dedicated training, and closed classes for Getting Started with Google Kubernetes Engine. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Getting Started with Google Kubernetes Engine, DevOps, GCP-GSGKE, Google Cloud, vILT

Q: Why choose Nexus Human for Getting Started with Google Kubernetes Engine?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Getting Started with Google Kubernetes Engine training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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