Introduction to Developer Efficiency on Google Cloud

Category: AI, Data & Analytics | **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

In this course, you are introduced to how generative AI can be used to make developers more efficient at writing code with Gemini Code Assist and implementing new features into applications. You will explore how Gemini Cloud Assist can help you to architect your applications and investigate issues that arise. Finally, you will put everything together into an end-to-end workflow.

About This Course

In this course, you are introduced to how generative AI can be used to make developers more efficient at writing code with Gemini Code Assist and implementing new features into applications. You will explore how Gemini Cloud Assist can help you to architect your applications and investigate issues that arise. Finally, you will put everything together into an end-to-end workflow.

Who Should Attend

Application developers who wish to use Gemini Code Assist and Gemini Cloud Assist to support application development workflows.

Prerequisites & Entry Requirements

General Prerequisites:

Basic Google Cloud knowledge for application development.

Learning Outcomes

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

- Understand the efficiency challenges in a developer workflow and how generative AI can make developers more efficient.
- Use Gemini Code Assist to more efficiently write code for your applications.
- Use Gemini Code Assist with tools and agents.
- Understand the features of Gemini Cloud Assist.
- Create an end-to-end developer workflow using Gemini Code Assist and Gemini Cloud Assist.

Detailed Course Outline

Module 1 - Developer Efficiency on Google Cloud

Topics:

- Developer Workflows, SDLC, DORA, and Efficiency Challenges
- Generative AI for Developer Efficiency
- AI-powered Developer Tools on Google Cloud
- Developer Workflows with LLMs

Objectives:

- Understand developer workflows, SDLC, DORA, and efficiency challenges
- Improve developer efficiency in Google Cloud with generative AI
- Explore the AI-powered developer tools on Google Cloud
- Understand developer workflows with Large Language Models (LLM)

Module 2 - Gemini Code Assist

Topics:

- Introduction to Gemini
- Gemini Code Assist
- Generating and Completing Code Using Gemini
- Prompting Best Practices

Objectives:

- Understand the role of Gemini
- Learn how to set up Google Cloud Code and Code Assist in your IDE
- Generate and complete code with Gemini
- Use Gemini with the Cloud Code IDE extension

Activities:

- Lab: Getting Started with Gemini Code Assist

Module 3 - Expanding Code Assist Usage

Topics:

- Grounding on Your Codebase

- Code Assist Tools

- Code Assist Agents

- Additional Code Assist Capabilities

Objectives:

- Ground on your codebase

- Extend capabilities with external services

- Automate complex development tasks with Code Assist agents

- Utilize advanced Code Assist capabilities

Activities:

- Lab: Using Gemini and Tools in Code Assist to Develop a CI/CD Pipeline

Module 4 - Gemini Cloud Assist

Topics:

- Gemini Cloud Assist Capabilities

- Designing with Gemini Cloud Assist

- Investigating Issues with Gemini Cloud Assist

Objectives:

- Leverage the Power of Gemini in Cloud Operations

- Utilize Gemini Cloud Assist’s Application Design Center (ADC) for designing and building cloud

applications

- Optimize costs with Gemini Cloud Assist

- Investigate and diagnose issues with Gemini Cloud Assist

Activities:

- Lab: Diagnosing Issues with Gemini Cloud Assist

Module 5 - Putting it all Together

Topics:

- Revisiting Example Use Case

- Overall Approach Using Gemini

Objectives:

- Use Gemini Code Assist to perform design and initial code generation

- Create infrastructure and deploy using Gemini Cloud Assist

- Perform operations and optimization using Gemini Cloud Assist

Activities:

- Lab: End-to-End Application Development with Gemini

Skills You Will Learn:

- Understand the efficiency challenges in a developer workflow and how generative AI can make developers more efficient.
- Use Gemini Code Assist to more efficiently write code for your applications.
- Use Gemini Code Assist with tools and agents.
- Understand the features of Gemini Cloud Assist.
- Create an end-to-end developer workflow using Gemini Code Assist and Gemini Cloud Assist.

Frequently Asked Questions

Q: What delivery options are available for Introduction to Developer Efficiency on Google Cloud?

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 Introduction to Developer Efficiency on Google Cloud 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 Introduction to Developer Efficiency on Google Cloud 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 Introduction to Developer Efficiency on Google Cloud?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Developer Efficiency on Google Cloud. 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: Introduction to Developer Efficiency on Google Cloud, AI & Data Science, IDEGC

Q: Why choose Nexus Human for Introduction to Developer Efficiency on Google Cloud?

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 Introduction to Developer Efficiency on Google Cloud training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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