



Curso Preparing for Your Professional Cloud Network Engineer Journey

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Duración
8 horas



Modalidad
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Certificación ITIL® 4 Foundation





Objetivos:

- Describir los dominios que se incluyen en el examen de certificación de Professional Cloud Network Engineer.
- Identificar brechas en sus conocimientos y habilidades con respecto a cada dominio y crear un plan de estudio.
- Prepararte para el examen de certificación Professional Cloud Network Engineer.

Requisitos:

Tener más de 3 años de experiencia en la industria, incluyendo más de 1 año diseñando y administrando soluciones con Google Cloud.

Material del curso:

Documentación oficial para el curso **Preparing for Your Professional Cloud Network Engineer Journey**.

Perfil del docente:

- Formador certificado por Google Cloud.
- Más de 5 años de experiencia profesional.
- Más de 4 años de experiencia docente.
- Profesional activo en empresas del sector IT.

Metodología:

- “Learning by doing” se centra en un contexto real y concreto, buscando un aprendizaje en equipo para la resolución de problemas en el sector empresarial.
- Aulas con grupos reducidos para que el profesional adquiera la mejor atención por parte de nuestros instructores profesionales.
- El programa de estudios como partners oficiales es confeccionado por nuestro equipo de formación y revisado por las marcas de referencia en el sector.
- La impartición de las clases podrá ser realizada tanto en modalidad Presencial como Virtual.

Examen y Certificación:

Preparación para el examen de certificación:

Professional Cloud Network Engineer



Contenidos:

Módulo 0: PCNE certification Temas:

- Role of a Professional Cloud Network Engineer
- Introduction to a sample infrastructure scenario that is used throughout the course
- Certification process

Objetivos:

- Describe the purpose and benefits of the PCNE certification.
- Explain the certification process.
- Create a study plan for designing, planning, and prototyping a Google Cloud network.

Módulo 1: Designing, planning, and prototyping a Google Cloud Network Temas: Within the context of the sample scenario:

- Describe how Load Balancing will be used for general users accessing resources from the internet as well as internal users accessing from private connected networks.
- Describe how Cloud CDN, Armor and NAT will be configured and the benefits they will provide, and used and how Cloud DNS will be integrated with an on-premise DNS system.
- Describe how packet mirroring will be used for periodic network forensic audit.

Objetivos:

- Explain the considerations involved in designing an overall network architecture.
- Identify considerations for designing a VPC, a hybrid or multi-cloud network, or an IP addressing plan for GKE.
- Determine the skills you need to develop to effectively design, plan, and prototype a Google Cloud network.

Módulo 2: Implementing a VPC Temas: Within the context of the sample scenario:

- Assuming Kubernetes clusters will be used in all the networks, describe how IP addresses will be distributed among them.
- Describe the sort of interconnections will be added between Google Cloud and external environments and how the routing will be configured for them.
- Describe how the network will be secured with firewall rules and VPC Service Controls

Objetivos:

- Identify the tasks involved in configuring VPCs, configuring routing, and configuring and maintaining GKE clusters.
- Describe considerations for configuring firewalls and implementing VPC Service Controls.
- Determine the skills you need to develop related to implementing a VPC.

Módulo 3: Configuring network services Temas: Within the context of the sample scenario:

- Describe how Load Balancing will be used for general users accessing resources from the internet as well as internal users accessing from private connected networks.
- Describe how Cloud CDN, Armor and NAT will be configured and the benefits they will provide, and used and how Cloud DNS will be integrated with an on-premise DNS system.
- Describe how packet mirroring will be used for periodic network forensic audit

Objetivos:

- Identify considerations involved in configuring load balancing.
- Describe the scope of tasks to configure Cloud Armor policies, Cloud CDN, Cloud DNS, Cloud NAT, and network packet inspection.



Módulo 4: Implementing hybrid connectivityTemas: Within the context of the sample scenario: describe the details of the VPN and Interconnect links between Google Cloud VPCs and on-premise or other cloud networks. Objetivos:

- Describe how to configure Google Cloud Interconnect, a site-to-site IPsec VPN, and Cloud Router.
- Determine the skills you need to develop to ensure successful implementation of hybrid interconnectivity.

Módulo 5: Managing, monitoring, and optimizing network operationsTemas: Within the context of the sample scenario:

- Describe the network troubleshooting and debugging process.
- Describe the troubleshooting process using Cloud Logging and Monitoring and Network Intelligence Center.

Objetivos:

- Describe options for logging and monitoring with Google Cloud's operations suite.
- Explain tasks involved in managing and maintaining security.
- Identify considerations for maintaining and troubleshooting connectivity issues, latency, and traffic flow.
- Determine the skills you need to develop to manage and optimize network operations with Google Cloud.

Módulo 6: Your next stepsTemas: Based on domain knowledge deficiencies noted after answering the diagnostic questions, construct a weekly study plan. Objetivos:

- Create a weekly study plan.
- Set weekly study goals.
- Register for the Professional Cloud Network Engineer exam.



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