Tencent Cloud Global Partner Training & Certification Program (MSP)

1. Tencent Public Cloud products

1.1 Introduction to Tencent Public Cloud Product Training & Certification

The Tencent Public Cloud Product Training & Certification is designed for MSP Partners (Managed Service Partner) . It includes 5 certification courses with a standard training and examination cycle spanning 5 weeks . For details, please refer to the diagram below.

<table>
<tr><td rowspan="2">Week 1</td><td>Learning Objectives</td><td>Course Names
Learning Format</td><td>Tencent Cloud Practitioner</td><td>Tencent Cloud Computing Associate Engineer</td></tr>
<tr><td>Master cloud computing fundamentals, understand technical principles of core cloud products, and gain hands-on cloud platform capabilities.</td><td>Self-paced Learning + Q&A Sessions</td><td>Cloud Computing Overview, Tencent Cloud Computing Services, Tencent Cloud Network Services, Tencent Cloud Storage Services, Tencent Cloud Database Services, Tencent Cloud Middleware Services, Enterprise Application Services, Tencent Cloud Security Services, Tencent Cloud Multimedia & Communication Services, Tencent Cloud Big Data Services, Tencent Cloud AI Services</td><td>Cloud Computing Fundamentals, Cloud Servers, Container Technology, Cloud Network Services, Cloud Storage Services, Cloud Database Services, Cloud Security Services</td></tr>
<tr><td rowspan="2">Week 2</td><td>Learning Objectives</td><td>Course Names
Learning Format</td><td colspan="2">Tencent Cloud Solutions Architect Professional Engineer</td></tr>
<tr><td>Master cloud architecture design fundamentals and cloud product tooling, with practical cloud architecture design capabilities.</td><td>Online Training + Self-paced Learning</td><td colspan="2">Cloud Architecture Design
Cloud Infrastructure Services – Building Highly Available, Reliable, and Scalable Architectures:
Middleware Services Architecture Design
Enterprise Services Architecture Design
Network Architecture Design
Storage Architecture Design
Databases Architecture Design
Cloud Migration Services
Security and National Compliance Standards</td></tr>
<tr><td rowspan="4">Week 3</td><td>Learning Objectives</td><td>Course Names
Learning Format</td><td colspan="2">Tencent Cloud SysOps Professional Engineer</td></tr>
<tr><td rowspan="3">Master cloud operations awareness, production security practices, and cloud service implementation, with corresponding operational capabilities.</td><td rowspan="3">Online Training + Self-paced Learning</td><td>Operations Methodology</td><td>Cloud Migration</td></tr>
<tr><td>Operations Skill Review</td><td>Production Environment Setup - Advanced</td></tr>
<tr><td>Production Environment Setup - Fundamentals</td><td>Production Environment Continuous Operations</td></tr>
<tr><td rowspan="5">Week 4</td><td>Learning Objectives</td><td>Course Names
Learning Format</td><td colspan="2">Tencent Public Cloud Delivery Associate Engineer - Cloud Migration</td></tr>
<tr><td rowspan="4">Acquire foundational skills for Tencent Cloud migration, including cloud migration solution design, tool usage, and cloud troubleshooting.</td><td rowspan="4">Self-paced Learning + Q&A Sessions</td><td>Cloud Migration Fundamentals</td><td>Security Architecture Design</td></tr>
<tr><td>Cloud Migration Workflow</td><td>Cloud Product Troubleshooting</td></tr>
<tr><td>Cloud Migration Solution Design</td><td>Cloud Migration Issue Resolution</td></tr>
<tr><td>Elastic Architecture Design</td><td>Cost-Optimized Architecture Design</td></tr>
<tr><td>Week 5</td><td>Complete certification exams for respective subjects</td><td colspan="3">Theoretical Exam</td></tr>
</table>

Note: The five-week training mentioned here is not continuous. It refers to a total learning period of five weeks

1.2 Learning Materials

Courses and Certifications	Learning Materials
Tencent Cloud Practitioner	https://www.tencentcloud.com/edu/training/cert/detail?type=CFF
Tencent Cloud Computing Associate Engineer	https://www.tencentcloud.com/edu/training/cert/detail?type=CCJ
Tencent Cloud Solutions Architect Professional Engineer	https://www.tencentcloud.com/edu/training/cert/detail?type=CAS
Tencent Cloud SysOps Professional Engineer	https://www.tencentcloud.com/edu/training/cert/detail?type=COP
Tencent Public Cloud Delivery Associate Engineer - Cloud Migration	https://www.tencentcloud.com/edu/training/cert/detail?type=TMA

2.The Online Training

The following subjects offer online training . For the specific training process, please contact the business manager of Tencent

Courses and Certifications	Training duration	Training Format
Tencent Cloud Solutions Architect Professional Engineer	5 days	Online Training
Tencent Cloud SysOps Professional Engineer	5 days	Online Training

3.Examination Registration Process

The overall workflow consists of **five** steps: **Signing up for a Tencent Cloud Account, Identity Verification** , **Voucher Application** , **Registration & Scheduling ,** and **Offline Exam Participation.**

Step 1：**Signing up**

https://www.tencentcloud.com/document/product/378/17985

Step 2: **Identity Verification**

https://www.tencentcloud.com/document/product/378/10495

Step 3：Voucher Application. For specific procedures, please contact the Tencent business manager.

Step 4：Certification Registration and Examination Guide

https://www.tencentcloud.com/document/product/1253/68265

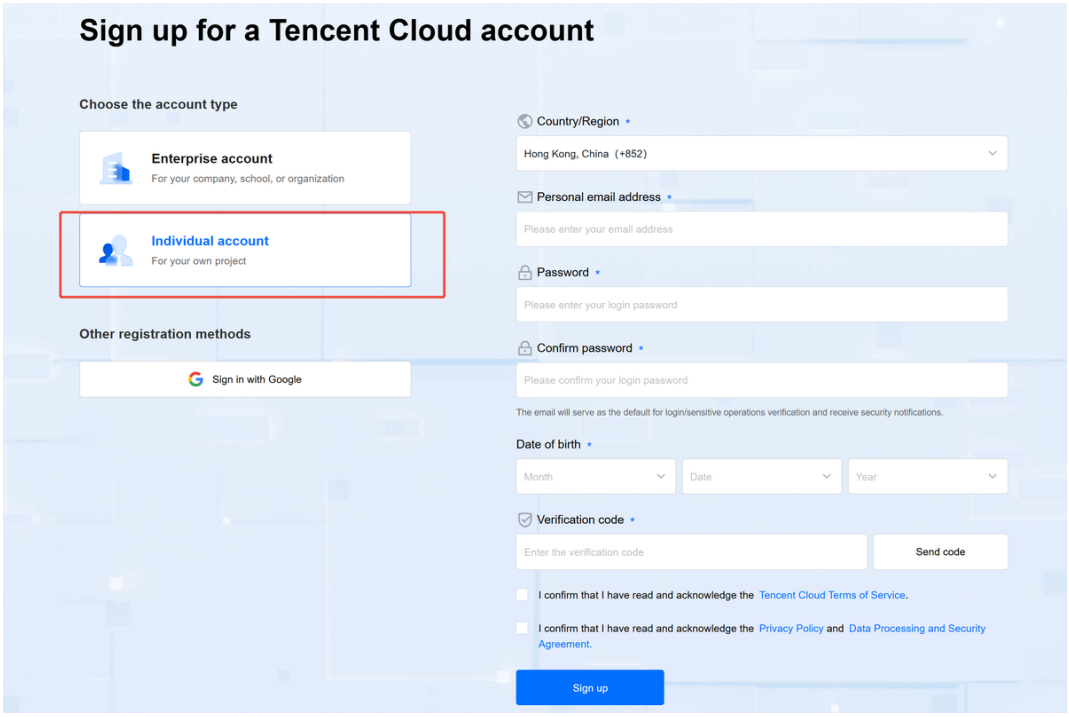
Step 5：Attend the exam at an offline test center

4.Important Notes

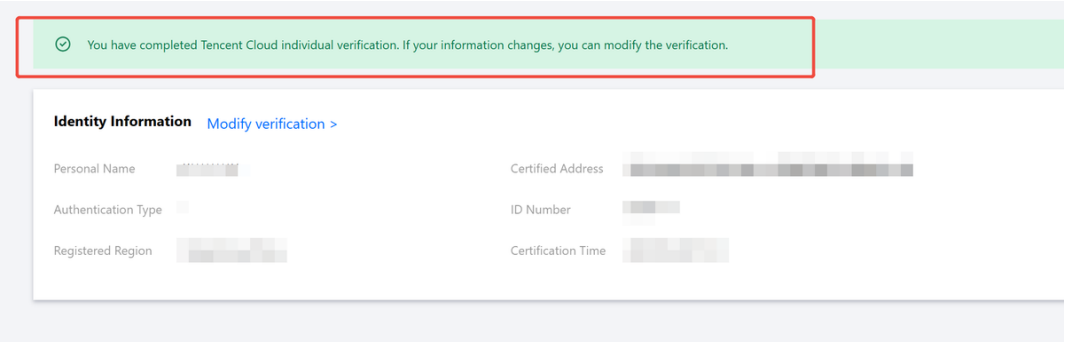
This part mainly explains the points that need special attention in the previous part of the exam registration process.

- Step1 and Step 2 are the foundation of all subsequent actions and must be completed first; otherwise, it will affect the distribution of vouchers and exam reservations in the future.
- If you encounter any problems during the account Signing Up and Identity Verification process, you can submit a work order on the website. The customer service representative will contact you and assist in solving the problem.

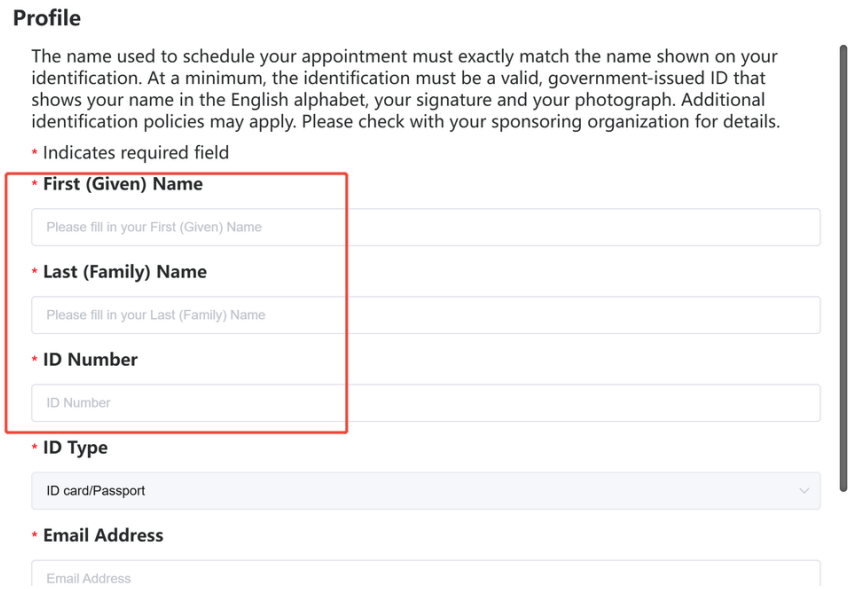
  https://console.tencentcloud.com/workorder/category
- In Step 1:Signing Up, account type must choose Individual account. NOT Enterprise account

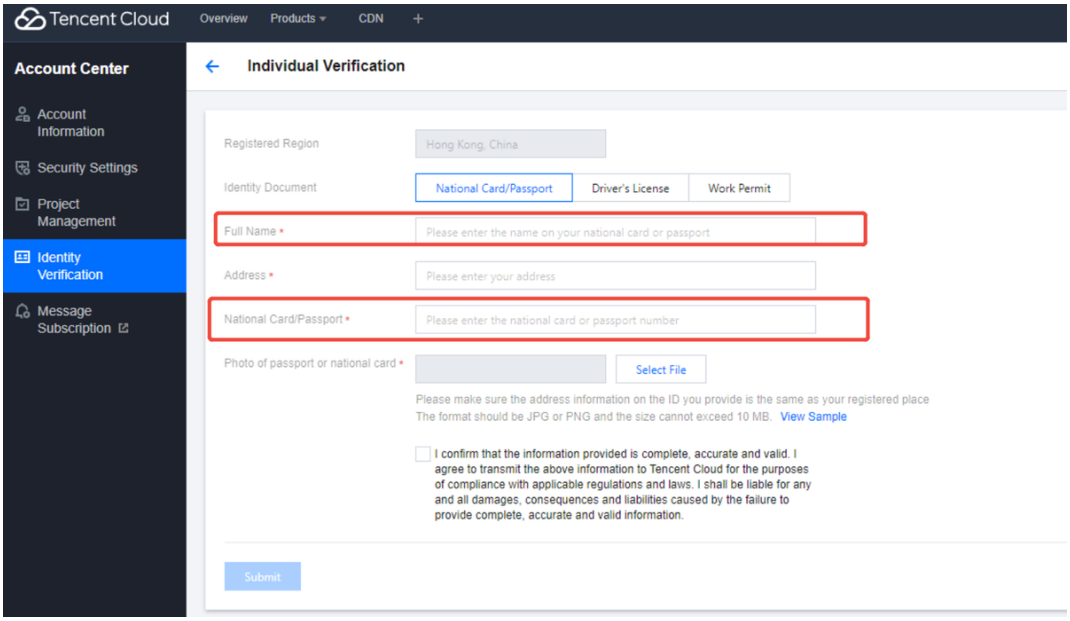


- In Step 2:Individual Identity Verification Guide. When you have completed filling in the relevant information for Identity Verification, The Tencent Cloud team will review the application within two to three business days and notify you of the result through the console Message Center, email, and SMS. When finish, it will show as below.



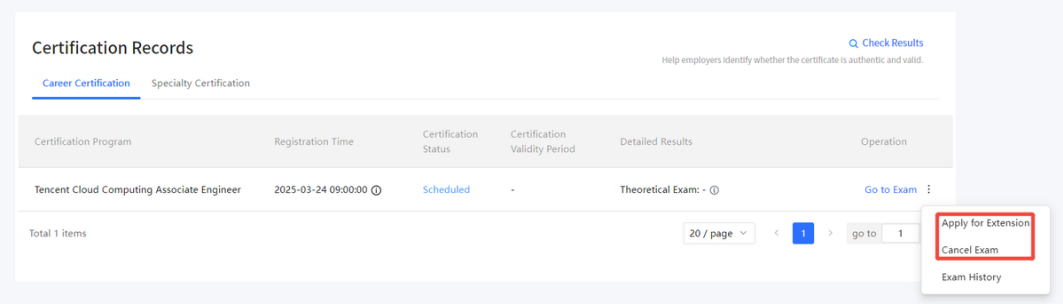
- In Step 5: When you Schedule Exam, **the Name and ID Number MUST AS SAME AS Identity Verification in Step 2**. If the information is inconsistent, the registration cannot be successful.





- In Step 5:When you complete exam registration, If for some reasons you need to modify the exam time or cancel the exam,You must reschedule/cancel your exam at least 72 hours prior to your appointment date. **If 72 hours or less, you CANNOT reschedule/cancel the exam**

  https://www.tencentcloud.com/edu/training/cert/list



- In Step 5:When you complete exam registration,you will receive an email of Appointment Confirmation which contain information you should konw, so read carefully.On the day of the exam, **the identification documents you bring MUST AS SAME AS the information in Identity Verification and exam registration.**

To: Kaihong Fu
Date: 04 Jun 2025

Thank you for registering to take TCE Delivery Engineer - PaaS Product (Theory) with Prometric, below is your appointment confirmation details.

Confirmation:	[redacted]
Prometric ID:	[redacted]
Program:	Specialty Certification
Exam Code:	D0133
	TCE Delivery Engineer - PaaS Product (Theory)
Exam Date:	12 Jun 2025
Exam Time:	09:30 AM

Prometric Test Center: # 8801
JAKARTA, INDONESIA #8801
Indonesia Intt .Educ.Fdn. IIEF Ctr - Jakarta
Menara Imperium 28Th Floor Suite B
Jakarta 12980
INDONESIA

GLOBAL TEST CENTER SECURITY PROCEDURES

Prometric takes its role of providing a secure test environment seriously. During the check-in process, we inspect any and all eyeglasses, jewelry and other accessories to look for camera devices that could be used to capture exam content.

- You will be required to remove your eyeglasses for close visual inspection. These inspections will take a few seconds and will be done at check-in and again upon return from breaks before you begin or resume testing to ensure you do not violate any security protocol.
- Jewelry outside of wedding and engagement rings is prohibited. Please do not wear other jewelry during testing. Hair accessories, ties and bowties are subject to inspection. Please refrain from using ornate clips, combs, barrettes, headbands, tie clips, cuff links and other accessories as you may be prohibited from wearing them during testing and asked to remove these items. Violation of security protocol may result in the termination of your exam and notification to your test sponsor.

IDENTIFICATION POLICY

You will be required to present one valid, government-issued photo ID (e.g., driver's license or passport). If you are testing outside of your country of citizenship, you must present a valid passport. If you are testing within your country of citizenship, you must present either a valid passport, driver's license, national ID or military ID. The identification document must be in Latin characters and contain your photograph and signature. All other personal items must be locked in a locker for test security purposes, so please limit what you bring to the testing center

RESCHEDULE / CANCEL POLICY

5.Courses List

5.1 Tencent Cloud Practitioner

Course Guide

Course Introduction

This course is a foundational general education course on cloud computing, primarily covering the basic concepts, key features, and application scenarios of cloud products.

Course Objectives

This course introduces fundamental cloud computing theories to help cloud practitioners understand industry terminology, grasp product application scenarios, and bridge communication gaps with technical teams.

Suitable for

This course is designed for individuals interested in cloud technologies and seeking foundational knowledge of cloud principles and products, including students, independent developers, as well as professionals aiming to understand Tencent Cloud's product offerings and technical advantages, such as cloud solution sales personnel.

Knowledge Domains & Exam Weighting

Knowledge Domain	Knowledge Points
Cloud Computing Overview (10%)	1.Common Web Application Basics: Frontend and Backend, Servers, Data Centers, etc. 2.Common Application Architecture Types and Internet Application Architectures. 3.Evolution of Data Centers, Comparison between Cloud Computing and Self-built Data Centers.

	4. Concepts, Characteristics, Development History, Service Models, and Deployment Models of Cloud Computing. 5.Advantages, Qualifications, Products, and Solutions of Tencent Cloud.
Tencent Cloud Computing Service **(15%)**	1.Server Basics: Evolution of Servers and Concepts of CPU, Memory, Hard Disk, etc. 2.Tencent Cloud Server Products, and Concepts of Regions, Availability Zones, Instances, Images, etc. 3.Elastic Computing Products: Auto Scaling (AS) 4.Container Knowledge, and Tencent Cloud Container Products:TKE
Tencent Cloud Network Service **(15%)**	1.Network Basics: Formation of Computer Networks, Basic Elements of Network Communication, Common Network Architectures and Devices 2.Tencent Cloud Network Products: Virtual Private Cloud (VPC) and its Components, VPC Control and Access, Elastic Network Interface (ENI) 3.VPC Access Methods: Elastic Public IP, NAT Gateway, Direct Connect, VPN Connection, Cloud Connect Network (CCN)3.4 Tencent Cloud Load Balancer (CLB)

Tencent Cloud Storage Service **(15%)**	1.Storage Basics: Basics of Storage Devices, Common Storage Media and Interfaces, Storage Solutions 2.Tencent Cloud Storage Products: Cloud Block Storage (CBS), Cloud File Storage (CFS), Cloud Object Storage (COS) 3.Tencent Cloud Storage Services: Cloud Storage Gateway (CSG), Cloud Data Migration (CDM), Cloud Log Service (CLS)
Tencent Cloud Database Products **(10%)**	1.Database Basics: Challenges of Data Storage Management, Classification of Data and Databases, Positioning of Databases in Architecture 2.Tencent Cloud Relational Databases: Tencent Cloud Database MySQL, Other Relational Databases 3.Tencent Cloud NoSQL Databases: Cloud Database MongoDB, Cloud Database Redis, etc.
Tencent Cloud Middleware Service **(5%)**	1.Basic Message Queue (MQ) Knowledge: Challenges of Traditional Architecture, MQ Concept and advantages 2.TDMQ Products Overviews 3.Microservice Concepts and advantages, Tencent Cloud Microservice Product

Enerprise Application Service (10%)	1.Enterprise Application Website Building Process, Domain Name Basics 2.Tencent Enterprise Application Products: Tencent Cloud Domain Name, Tencent Cloud DNS Resolution, Tencent Cloud SSL Certificates 3.Tencent Cloud Acceleration Products: CDN Acceleration Principles, Tencent Cloud Acceleration Product System
Tencent Cloud Security Service (5%)	1.Information Security Threats and Protection Basics: Common Security Threats, Basics of Information Security Protection 2.Key Tencent Cloud Information Security Products: Tencent Cloud Network Security, Endpoint Security, Application Security, Data Security Products
Tencent Cloud Audio, Video, and Communication Services (5%)	1.Audio and Video Basics: Audio and Video Business Scenarios, Industry Overview, Typical Architectures of Audio and Video Applications 2.Tencent Cloud Audio and Video Products: Cloud Live Streaming (CSS), Cloud Video on Demand (VOD), Real-time Communication (TRTC) 3.Tencent Cloud Communication Services: Instant Messaging (IM), SMS

Tencent Cloud Big Data Service (5%)	1.Basic Big Data Knowledge : Development & Hadoop Ecosystem 2.Tencent Cloud Big Data Products：Solutions, EMR
Tencent Cloud Artificial Intelligence (AI) and Machine Learning Services (5%)	1.Basic AI Knowledge: Concepts , Development, and Applications 2.Tencent Cloud AI Products: Applications, Platform ,and Big Models

Learning Duration

Online Video Learning，3 Days (Recommended)

Class Size Limit

No Limit

Exam Guide

Introduction to the Examination

Suitable for students, individual developers, and personnel who are new to the cloud computing industry and wish to understand cloud technology, as well as those who are gradually advancing to roles such as operations and architecture. Additionally, it is for sales, legal, marketing, project managers, and human resources personnel who need to understand Tencent Cloud services.

Exam Type

Theoretical examination

Exam Format

This certification exam consists of 40 single choice questions and 20 multiple choice questions.

Exam Duration

90 minutes

Passing Score

This certification exam is conducted in the form of on-site testing centers

Total Score of Examination: 100

Passing Score of Examination: 70

5.2 Tencent Cloud Computing Associate Engineer

Course Guide

Course Introduction

This course focuses on key technologies of cloud computing, including virtualization technology (computing services, virtual machines and containers), distributed storage technology (storage services), software-defined networking (network services), cloud databases, cloud security technology, and metering and billing. It explains the corresponding concepts, technological development, technical features, application scenarios, and practical operations.

Course Objectives

This course focuses on learning basic concepts, resource objects and operations, enabling those with a certain foundation in computer science to have a comprehensive understanding of cloud computing, cloud platform operations and principles.

Suitable for

1. People who hope to become cloud computing engineers

2. People who hope to obtain the certification of cloud computing engineers

Knowledge Domains & Exam Weighting

Knowledge Domain	Knowledge Points
Cloud Computing Basics **(8%)**	1.Data Center Overview, including the definition of data centers, functions, and development history, as well as the limitations of traditional data centers. 2.Cloud Computing Overview, including the background of cloud computing, definition, implementation models, advantages, characteristics, classification, and application scenarios. 3.Cloud Computing Architecture and Cloud Platforms, including virtualization technology, cloud computing technology architecture, layering advantages, and mainstream cloud platforms. 4.Tencent Cloud Overview, including the development history, advantages, and qualifications of Tencent Cloud.
Cloud Servers **(14%)**	1.KVM Virtualization, including the concept of virtualization, development history, system architecture, component architecture, and virtualization of CPU, memory, I/O, and networking. 2.Cloud Servers, including related concepts of cloud servers, cold and hot migration, fault migration, and elastic scaling. 3.Cloud Virtual Machine (CVM), including product features, advantages, instance specifications, and introductions to CVM in

	specific fields. 4.Security Protection for Cloud Servers, including the importance of cloud server security, implementation methods, and Tencent Cloud host security products.
Container Technology **(13%)**	1.Container Fundamentals: Explores container development history, core concepts, technical mechanisms (e.g., isolation, resource management), and distinctions from virtual machines (VMs). 2.Container Security & Solutions: Addresses container-specific risks (e.g., vulnerabilities, runtime threats), mitigation strategies (image scanning, access control), and Tencent's integrated security services. 3.Container Orchestration & Platforms: Covers orchestration evolution, Kubernetes (K8s) architecture design, and Tencent Kubernetes Engine (TKE) features/advantages for scalable, automated container management.

Cloud Network Services **(27%)**	1.Network Fundamentals, including the OSI reference model, basic communication principles, network architecture, and device introductions. 2.Virtual Private Cloud (VPC), including the evolution of cloud networks, cloud network concepts, characteristics, application scenarios, and technical implementation of VPC. 3.Introduction to Cloud Network Products, including definitions, functions, and usage scenarios. 4.Load Balancing, including the background of load balancing, types, application scenarios, and characteristics, algorithms, and advantages of Cloud Load Balancer (CLB). 5.Content Delivery Network (CDN) Services, including an overview of the service, features, application scenarios, and classic CDN implementation architecture. 6.Network Security, including network threats, DDoS protection, and the functions and usage scenarios of cloud firewalls.
Cloud Storage Services **(12%)**	1.Storage Fundamentals, including the evolution of storage, performance indicators, types of storage, RAID technology, and storage virtualization technology. 2.Cloud Storage, including the concept and core technologies of distributed storage, implementation architectures and distributed mechanisms of Ceph and HDFS, and the features and application scenarios of Tencent Cloud's distributed storage

	products. 3.Cloud Storage Security, including data security threats and data security technologies.
Cloud Database Services **(18%)**	1.Database Fundamentals, including types and functions of databases, characteristics, and physical/logical structure introductions. 2.Cloud Databases, including functions, characteristics, advantages, and application scenarios of cloud databases, architectural principles, distributed principles, and Tencent Cloud's TDSQL. 3.NoSQL, including functions, characteristics, and application scenarios of in-memory databases, document databases, and Tencent Cloud's NoSQL. 4.Data Security Auditing, including challenges of security auditing, necessity, and features, advantages, and application scenarios of the DSAudit product.

Cloud Security Services **(8%)**	1.Information Security Threats and Protection Basics, including common security threats and protection methods. 2.Application Security, including the functions, advantages, and application scenarios of Web Application Firewall (WAF), and the overall architectural and technical principles of WAF. 3.Security Operations Center (SOC), including the functional scenarios, advantages, overall architecture, and technical implementation of SOC.

Learning Duration

Online Video Learning，5 Days (Recommended)

Class Size Limit

No Limit

Exam Guide

Introduction to the Examination

Suitable for college students and corporate users who are interested in cloud computing or have professional needs. Through this certification, you will master the basic knowledge of cloud computing, understand the technical principles of basic cloud products, and possess practical capabilities on cloud platforms.

Exam Type

Theoretical examination

Exam Format

This certification exam consists of 40 single choice questions and 20 multiple choice questions.

Exam Duration

90 minutes

Passing Score

This certification exam is conducted in the form of on-site testing centers

Total Score of Examination: 100

Passing Score of Examination: 70

5.3 Tencent Cloud Solutions Architect Professional Engineer

Course Guide

Course Introduction

This course centers around architectural characteristics such as high reliability, high availability, high scalability, high performance, and loose coupling. It introduces Tencent Cloud product features, real-world problem scenarios they address, and corresponding architectural solutions. Each solution is explained through a structured approach:

- Problem Challenges
- Resolution Strategy
- Design Implementation
- Outcome Validation

The course emphasizes best practices, prioritizing practical solution design over abstract conceptual explanations.

Course Objectives

This course will enable you to master the fundamentals of cloud computing architecture design and cloud platform product tools, equipping you with practical skills in cloud-based architectural design.

Suitable for

1.Individuals targeting the role of professional cloud architect;

2.Individuals pursuing professional cloud architect certification.

Knowledge Domains & Exam Weighting

Knowledge Domain	Knowledge Points
Cloud Computing Architecture Design (4%)	1.Cloud Computing Overview (Definition of cloud computing and models such as IaaS, PaaS, SaaS; advantages and classification of cloud computing) 2.Cloud Architecture Design (Significance and purpose of architectural design; architectural design process and principles)
Cloud Basic Services - Building Cloud Computing Architecture (9%)	1.CVM concept, product architecture, functional advantages, and best practices of CVM 2.Elastic scaling definition, product advantages, and best practices 3.Container Service TKE overview, product advantages, product architecture, and best practices

	4.Container Service TKE best practices: cluster creation management, DevOps continuous delivery
Cloud Basic Services - Building Cloud Network Architecture (13%)	1.Private Network VPC concept, characteristics, advantages, and tools and architecture for building large networks 2.Cloud network design best practices: multi-VPC network planning, cloud VPC and local IDC interconnection, multi-site connection, remote access to VPC 3.Load Balancing CLB business architecture role, application scenarios, traffic tunneling, multi-protocol forwarding principles, logical architecture 4.Load Balancing CLB best practices: load balancing algorithm selection, weight configuration, certificate deployment, high availability architecture, cross-region binding
Cloud Basic Services - Building Highly Reliable Cloud Storage (7%)	1.Cloud Storage CBS, CFS, COS use scenarios, product principles, product advantages 2.Cloud storage best practices: product comparison and selection, performance measurement, using CFS on container TKE, migration service platform MSP, storage gateway CSG, storage product selection for data lake and

	autonomous driving fields, highly reliable cloud storage solutions
Cloud Basic Services - Building Highly Reliable Cloud Databases **(13%)**	1.Cloud database functional characteristics, application scenarios, backend architecture, master-slave replication principles, backup and recovery 2.Cloud database best practices: read-write separation, high availability, database replication solutions, multi-availability zone database high availability, database replication tool DTS 3. Enterprise-level distributed database TDSQL product functions, advantages, application scenarios, basic principles, instance architecture 4.TDSQL best practices: instance configuration and sharding configuration 5.Cloud-native TDSQL-C product advantages, application scenarios, product architecture, product specifications, instance types 6.Cloud Redis functional characteristics, application scenarios, read-write separation principles 7. Cloud Redis best practices: analyzing and optimizing hot keys

	and large keys 8.Other NoSQL database functional characteristics and application scenarios
Cloud Basic Services - Middleware Services (9%)	1.Message queue functional characteristics, application scenarios, logical structure, comparison of Tencent Cloud message queue products 2.Message queue best practices: TDMQ selection, Ckafka production consumption, cross-availability zone deployment, asynchronous architecture design 3.Microservices functional characteristics, application scenarios, business design principles, control components, advantages of Tencent Cloud microservices platform 4.Microservices platform best practices: gray release, proximity routing, cross-availability zone disaster recovery, typical solutions 5.Serverless and cloud functions Serverless mechanism, cloud function product advantages, application scenarios, SCF function usage 6.Cloud function SCF best practices: SCF usage suggestions, event function creation, typical best practice cases

Cloud Basic Services - Enterprise Services **(5%)**	1.Domain name resolution principles, domain name service functions, cloud resolution DNS product functions, advantages, operations, mobile resolution HttpDNS product introduction, usage scenarios, advantages 2.Digital certificate functions, usage scenarios, SSL certificate product functions, advantages, Tencent Cloud national encryption scheme 3.Tencent Cloud observability platform product functions, advantages 4.Application performance monitoring platform APM product functions, advantages
Advanced Cloud Technologies **(14%)**	1.Cloud disaster recovery: national level intro, solutions, case sharing 2.Cloud business performance: data caching, async request arch design 3.Application containerization: transformation analysis, solutions 4.AI & large models: overview, solutions

Cloud Security (13%)	1.Cloud security system and standards introduction to Tencent Cloud cloud security system, Tencent data security governance framework, Tencent zero-trust solution architecture 2.Cloud security system construction solutions building secure communication networks, building secure area boundaries, building secure computing environments, building secure management centers
Cloud Migration Services (13%)	1.Migration methodology overview migration introduction, migration process, key steps in the migration process 2.Cloud components and migration tools list of common cloud components and migration tools, migration service platform, common cloud component migration solutions 3.Migration cases migration case introduction4. Cloud resource cost management resource cost assessment

Learning Duration

Online Video Learning，5 Days (Recommended)

Class Size Limit

No Limit

Exam Guide

Introduction to the Examination

By obtaining this certification, it can be demonstrated that the certificate holder has mastered the fundamentals of cloud computing architecture design and cloud platform product tools, and possesses practical capabilities in cloud architecture

design.

Exam Type

Theoretical examination

Exam Format

This certification exam consists of 40 single choice questions and 20 multiple choice questions.

Exam Duration

90 minutes

Passing Score

This certification exam is conducted in the form of on-site testing centers

Total Score of Examination: 100

Passing Score of Examination: 70

5.4 Tencent Cloud SysOps Professional Engineer Course Guide

Course Introduction

This course is a cloud operations training program covering operational methodologies, foundational skill reviews, basic and advanced techniques for production environment setup (including knowledge, operational skills and principles), production monitoring, security compliance, cost management tools, continuous operations approaches, cloud migration processes and tools. Through a combination of theoretical learning and hands-on labs, participants will efficiently master production environment operation skills and develop security awareness.

Course Objectives

This course enables participants to master operational methodologies, acquire production environment deployment skills, develop operation & maintenance capabilities with common issue diagnosis, and establish awareness of production security compliance and cost control.

Suitable for

1. Individuals aspiring to become senior cloud operations engineers
2. Candidates preparing for senior cloud operations engineer certification

Knowledge Domains & Exam Weighting

Knowledge Domain	Knowledge Points
Operational Methodology (10%)	1.Daily Work of Cloud Operations Engineers 2.Application of ITSM Methodology in Operational Work (requirements, changes, incidents, problems, and problem management) 3.Introduction to Production Safety Red Lines
Basic Operational Skills (6%)	1.Linux Basics Review (Operating System, File System, CPU and Processes, Memory Management, I/O Management, Network Management, Package Management) 2.Shell Basics Review (Data Types, Control Structures, Functions and Modularization, Input and Output, Text Processing, Arrays)

Basic Production Environment Construction (16%)	1.Principles of Production Environment Construction (importance, design principles) 2.Network Construction in Production Environment (regions, availability zones, network planning, VPC configuration) 3.Application Node Deployment (CVM features, high availability configuration) 4.Non-structured Data Storage (CBS configuration, CFS file sharing, COS object storage) 5.Structured Data Storage (cloud databases, TDSQL, TDSQL-C)
Advanced Production Environment Construction (25%)	1.Application Containerization Deployment (container basics, K8S components) 2.Container Cluster Construction and Maintenance (node pool configuration, image repository creation) 3.Decoupling Application Components (microservices architecture, message queues) 4.Caching for Performance Improvement (NoSQL caching, CDN content distribution)

Continuous Operation of Production Environment (29%)	1.Cloud Monitoring (log services, observability platform, cloud monitoring, Prometheus, Grafana, APM) 2.Security and Compliance (permission management, host security, data security, network security, application security, auditing, compliance) 3.Cost Management (budgeting, monitoring, alerts, cost control, overdue payment handling)
Cloud Migration (14%)	1.Overview of Migration Methodology (migration sources and targets, processes, key steps) 2.Cloud Components and Migration Tools (corresponding relationships of cloud components, migration tools) 3.Migration Service Platform (MSP platform functions) 4.Migration Cases (social platform for sports, home decoration design platform migration cases)

Learning Duration

Online Video Learning，5 Days (Recommended)

Class Size Limit

No Limit

Exam Guide

Introduction to the Examination

By obtaining this certification, it can be demonstrated that the certificate holder has mastered the skills of cloud operations, possesses operational methodology and production security awareness, and has the ability to ensure the stability and

practical application of cloud-based services.

Exam Type

Theoretical examination

Exam Format

This certification exam consists of 40 single choice questions and 20 multiple choice questions.

Exam Duration

90 minutes

Passing Score

This certification exam is conducted in the form of on-site testing centers

Total Score of Examination: 100

Passing Score of Examination: 70

5.5 Tencent Public Cloud Delivery Associate Engineer - Cloud Migration

Course Guide

Course Introduction

This course equips learners with practical skills and knowledge to plan, design, and execute cloud migration projects effectively. It focuses on three core areas: cloud migration tools and processes , architecture design for cloud environments , and troubleshooting common cloud-related issues . By combining best practices, the course prepares participants to optimize performance, security, and cost-efficiency during cloud migration and post-migration operations.

Course Objectives

- Understand foundational concepts of cloud migration, including workflows, tools, and challenges.
- Design scalable architectures for the cloud, covering elasticity, high performance, cost optimization, and security.

- Develop migration strategies aligned with business requirements and technical constraints.
- Troubleshoot common issues in cloud environments, such as product-specific errors and migration failures.
- Apply cost-saving techniques to optimize resource utilization in cloud infrastructure.

Suitable for

- Cloud Architects/Engineers : Professionals involved in designing or implementing cloud solutions.
- DevOps/IT Operations Teams : Teams managing cloud infrastructure and post-migration support.
- Technical Managers : Leaders overseeing cloud migration projects requiring strategic insights.
- Pre-Sales Engineers needing to advise clients on cloud migration best practices.

Knowledge Domains & Exam Weighting

Knowledge Domain	Knowledge Points
Cloud Migration Tool Competency **(35%)**	Cloud Migration Fundamentals Cloud Migration Processes Cloud Migration Solution Design
Cloud Architecture Design Competency **(35%)**	Elastic Architecture Design High-Performance Architecture Design Cost-Optimized Architecture Security Architecture Design

Cloud Operations & Troubleshooting (30%)	Cloud Product Issue Diagnosis Migration Process Troubleshooting

Learning Duration

Online Video Learning，3 Days (Recommended)

Class Size Limit

No Limit

Exam Guide

Introduction to the Examination

Earning this certification demonstrates the participant’s ability to:

- Apply cloud migration tools – Proficiently use tools like Tencent Cloud Migration Service for workload discovery, data synchronization, and cutover validation.
- Design cloud migration solutions
- Troubleshoot cloud-native issues

Exam Type

Theoretical examination

Exam Format

This certification exam consists of 40 single choice questions and 20 multiple choice questions.

Exam Duration

90 minutes

Passing Score

This certification exam is conducted in the form of on-site testing centers

Total Score of Examination: 100

Passing Score of Examination: 70