



@ASK Training
Attitude | Skills | Knowledge

(48 HRS)

SYSTEMS AND SERVER ADMINISTRATION

Course Synopsis

The course in Systems and Server Administration provides a comprehensive understanding and practical skills for managing server environments. It covers **server installation, hardware, virtualisation, Active Directory, DNS, DHCP, storage, remote access, network policy, and virtual machine management**. The course emphasises high availability and disaster recovery, aiming to equip IT professionals with the ability to manage sophisticated server infrastructures effectively.

Course Code: TGS-2026064619



Prerequisites

Completed the following courses awarded by @ASK Training:

- Operating Systems and Desktop Support

Language:

- Attained at least WPLN Level 5 OR
- Obtained Grade C6 for GCE O-Level English OR
- Other equivalent qualifications

Academic:

- Obtained at least a pass or C6 at GCE O-Level in at least 3 subjects OR
- Candidates with other qualifications will be considered on a case-by-case basis OR
- Mature candidates (≥ 30 years old) with 8 years of relevant working experience

Total Training Hours:

- 48-hours, including a 2-hour assessment
- Written Assessment
- Practical Assessment

Learning Units



Learning Unit 1

Introduction of Microsoft Server Environment



Learning Unit 2

Server Installation



Learning Unit 3

Deployment of Active Directory
Domain Service (ADDS)



Learning Unit 4

Deployment of DNS and DHCP



Learning Unit 5

Deployment of Disks, File System and
Storage Space



Learning Unit 6

Deployment of Remote Access Services



Learning Unit 7

Hyper-V in Windows Server



Learning Unit 8

High availability (HA) and Disaster recovery (DR)

Course Objectives

By the end of this course, learners should be able to:

- ✓ Explain the distinction between server and server/client concepts, including hardware selection, roles of server components, and comprehend the essentials of Active Directory, Domain Name System, Demilitarized Zone, Cloud Computing, and Virtualisation as integral parts of network infrastructure.
- ✓ Demonstrate proficiency in choosing and installing server hardware, including deploying Windows Server through Hyper-V, and successfully execute a secondary installation of Windows Server in a virtual machine environment.
- ✓ Demonstrate proficiency in setting up Active Directory (AD) and effectively managing organisation units (OUs), users, and groups in it, including setting up a Read-Only Domain Controller (RODC) computer object, creating an HR organizational unit using Active Directory Users and Computers (ADUC), and establishing two global HR groups within this OU.
- ✓ Develop the ability to set up and integrate Domain Name System (DNS), configure DNS zones, records, and conditional forwarding, install Dynamic Host Configuration Protocol (DHCP), and implement DHCP scopes, reservations, and failover mechanisms.
- ✓ Achieve proficiency in managing storage on Windows Server by creating disks and volumes, setting up storage spaces and replicas, calibrating performance for optimal operation, and configuring file permissions.
- ✓ Install and configure Remote Access Services (RAS) with VPN support and the Network Policy Server (NPS) role to enhance network management and security.
- ✓ Demonstrate proficiency in virtual machine management by efficiently managing memory in VMs, supporting Integration Services, utilizing VM Resource Groups, configuring Hyper-V replicas, and handling network adapters including setting up NIC teaming.
- ✓ Acquire the ability to effectively plan for business continuity, understanding different types of High Availability (HA) strategies, and implementing Disaster Recovery (DR) best practices.



Programme Fee

S\$1,962.00

(inclusive of
9% GST)

PROGRAMME FEE AFTER ELIGIBLE SWDA SUBSIDIES:

From **S\$228.60**

(inclusive of 9% GST) after 90% SWDA Subsidies

 Self-Sponsored	Course Fee before Subsidy and GST	Eligible Funding	Nett Fees Payable incl. 9% GST
Singapore Citizens ≥ 40 years old	S\$1,800.00	90% SkillsFuture Funding	S\$228.60
Singapore Citizens, PRs or LTVP+ Holders ≥ 21 years old		70% SkillsFuture Funding	S\$588.60

SkillsFuture Credits can be used on top of existing subsidies

 Company-Sponsored	Course Fee before Subsidy and GST	Eligible Funding	Nett Fees Payable incl. 9% GST
Small-to-Medium Enterprise (SME) Singaporean Citizens, PRs or LTVP+ Holders ≥ 21 years old	S\$1,800.00	90% SkillsFuture Funding	S\$228.60
Non-SME Singaporean Citizens, PRs or LTVP+ Holders ≥ 21 years old		70% SkillsFuture Funding	S\$588.60
Non-SME Singaporean Citizens ≥ 40 years old		90% SkillsFuture Funding	S\$228.60

Singapore Citizens 21 years old and above who meet special criteria* may be eligible for Additional Course Fee Funding Support (AFS) of 95% Subsidy. AFS is only eligible for SkillsFuture Career Transition Programme applicants.

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