



6-DAYS

Advanced Network Administration

Course Code: TGS-2024045997 (SCTP)
TGS-2025060531 (Non-SCTP)

**up to
90%**
SkillsFuture
Funding

Course Description

- This comprehensive course in Advanced Network Administration is designed for individuals seeking to deepen their expertise in the field of network management. With a focus on equipping learners with state-of-the-art skills in network design, configuration, security, and troubleshooting, this course offers an unparalleled opportunity to master complex network environments.
- Through hands-on training and theoretical learning, learners will not only enhance their capability to manage and optimise network infrastructures but also ensure their preparedness to address and mitigate security vulnerabilities.
- This course is ideal for IT professionals, system administrators, network engineers, and anyone interested in building a career in network administration and management.

Course Objectives:

Upon completion of this course, trainees should be able to:

- Configure and administer network devices within advanced network topologies and architectures, including the implementation of Virtual LANs (VLANs), Quality of Service (QoS), and techniques for optimising network performance.
- Apply advanced wireless communication concepts and leverage practical experience in setting up sophisticated network configurations to make informed decisions for optimising network administration.
- Analyse and configure routing protocols such as OSPF and BGPm ensuring efficient data routing within complex network infrastructures.
- Apply advanced switching concepts and technologies, including Virtual LANs (VLANs) and Spanning Tree Protocols (STP, RSTP, MSTP).
- Optimise network performance and reliability by employing dynamic routing and route redistribution, and address complex network management through the practical application of routing and switching protocols.
- Apply network security principles and techniques for firewall configuration, intrusion detection, and VPN implementation, ensuring the protection of network assets.
- Acquire advanced troubleshooting skills, including utilising network monitoring tools to identify and resolve complex network issues, thereby maintaining network reliability.
- Apply access control measures effectively, securing network connections and ensuring data confidentiality and integrity within complex network infrastructure.
- Develop the capacity to design complex network configurations and proficiently implement them while considering real-world network situations and adhering to optimisation best practices.
- Perform network security by configuring firewalls and VPNs to safeguard network assets and sensitive data and acquiring proficiency in utilising Network Automation tools.
- Apply advanced troubleshooting techniques to resolve complex network issues, ensuring the uninterrupted operation of network infrastructures and prompt issue resolution.

Course Outline



Learning Unit 1: Advanced Network Configuration and Administration



Learning Unit 2: Routing and Switching



Learning Unit 3: Network Security and Advanced Troubleshooting



Learning Unit 4: Advanced Network Methodology



Written Assessments

Candidates are to answer all questions and receive a minimum grade of 50% and above (out of 100%) to demonstrate competencies in Learning Units (LU) 1 to 4.



Practical Assessments

Candidates are to design, implement, and manage a complex network infrastructure and receive a minimum grade of 50% and above (out of 100%) to demonstrate competencies in Learning Units (LU) 1 to 4.

Course Fees & Funding

S\$1,700
(exclusive of
9% GST)

PROGRAMME FEE AFTER ELIGIBLE SSG SUBSIDIES:

From **S\$215.90**

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



Self-Sponsored

Course Fee
before Subsidy and GST

Eligible Funding

Nett Fees Payable
incl. 9% GST

Singapore Citizens
40 years old and above

S\$1,700.00

90% SkillsFuture
Funding

S\$215.90

Singaporean Citizens,
PRs or LTVP+ Holders
21 years old and above

70% SkillsFuture
Funding

S\$555.90



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\$1,700.00

90% SkillsFuture
Funding

S\$215.90

Non-SME
Singaporean Citizens,
PRs or LTVP+ Holders
≥ 21 years old

70% SkillsFuture
Funding

S\$555.90

Non-SME
Singaporean Citizens
≥ 40 years old

90% SkillsFuture
Funding

S\$215.90



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