@ASK Training
Attitude | Skills | Knowledge

6-DAYS

Advanced Network Administration

Course Code: TGS-2024045997

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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