@ASK Training
Attitude | Skills | Knowledge

5-DAYS

IT Infrastructure Planning and Optimisation

Course Code: TGS-2024046013 (SCTP)
TGS-2025060539 (Non-SCTP)

up to
90%
SkillsFuture
Funding

@ASK Training is a Private Education Institution (PEI) accredited by the Ministry of Education (MOE) and also a Continuing Education and Training Centre (CETC) accredited by SkillsFuture Singapore (SSG), offering a diverse range of courses from Infocomm Technology (ICT) to Digital Marketing, with up to **90% funding.**

LEARNING OUTCOMES

- Articulate the components of infrastructure planning, including analysing stakeholder requirements and strategically developing IT infrastructure within an organisational context.

- Design robust and scalable IT infrastructures that reliably meet performance expectations by selecting appropriate architectures for servers, networks, storage, and data backup/recovery methods.

- Apply knowledge of virtualisation and cloud technologies to select appropriate cloud service models and deploy infrastructure effectively in cloud-based projects.

- Evaluate the IT security policies, authentication, and authorisation mechanisms in identity and access management to address threats and vulnerabilities, including fulfilling the regulatory and audit compliance requirements.

- Discuss key IT service delivery frameworks and methodologies, including ITIL and COBIT, change management, and release practices, enabling them to manage SLAs effectively for enhanced organisational efficiency and customer satisfaction.

- Enhance system or network efficiency and responsiveness by identifying and mitigating performance bottlenecks, implementing monitoring solutions, and utilising performance metrics to proactively address potential issues in a high performance IT environment.

- Document and communicate complex infrastructure designs effectively, including capturing system architecture, configuration, and operational procedures to convey technical information clearly within cross-functional teams.
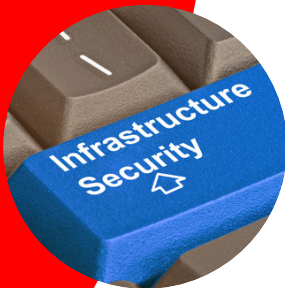
COURSE OUTLINE

Learning Unit 1:
Introduction to IT Infrastructure Planning

Learning Unit 2:
Infrastructure Design & Architecture

Learning Unit 3:
Virtualisation & Cloud Infrastructure

Learning Unit 4:
IT Infrastructure Security & Compliance

Learning Unit 5:
Service Management

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 7.

Practical Assessments
Candidates are to automate and orchestrate IT infrastructure and receive a minimum grade of 50% and above (out of 100%) to demonstrate competencies in Learning Units (LU) 1 to 7.

COURSE OUTLINE

Learning Unit 6:
Performance Optimisation & Monitoring
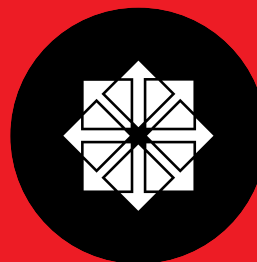
Learning Unit 7:
Infrastructure Documentation & Communication

IT-TOOLS COVERED

**VMware
Workstation Player**

**Windows 11
Vmware Image**

**Centos 8 VMware
Image**

**Azure Cloud
Access**

Course Fees & Funding

S$1,900
(exclusive of 9% GST)

PROGRAMME FEE AFTER ELIGIBLE SSG SUBSIDIES:

From **S$241.30**

(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$1,900.00**	**90%**	SkillsFuture Funding	**S$241.30**
Singaporean Citizens, PRs or LTVP+ Holders **21 years old and above**		**70%**	SkillsFuture Funding	**S$621.30**

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$1,900.00**	**90%**	SkillsFuture Funding	**S$241.30**
Non-SME Singaporean Citizens, PRs or LTVP+ Holders ≥ 21 years old		**70%**	SkillsFuture Funding	**S$621.30**
Non-SME Singaporean Citizens ≥ 40 years old		**90%**	SkillsFuture Funding	**S$241.30**

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