



@ASK Training
Attitude | Skills | Knowledge

(24 HRS)

CYBERSECURITY ESSENTIALS

Course Synopsis

This course equips participants with foundational knowledge and practical skills to safeguard organisational systems, networks, and digital assets against cybersecurity threats. It introduces core information security principles, including the **Confidentiality, Integrity, and Availability (CIA)** triad, security controls, and cybersecurity roles, enabling participants to understand how security is integrated into IT environments.

Participants will analyse threat actors, attack vectors, and social engineering techniques, and apply mitigation strategies using cryptographic solutions such as **encryption, hashing, and public key infrastructure (PKI)**. The module also develops competencies in **identity and access management (IAM)**, secure network architecture, and remote access technologies. Participants will further explore **cloud security, Zero Trust concepts, and system resilience practices**, including asset protection and physical security.

Aligned with the **CompTIA Security+** syllabus, this course prepares participants for advanced training in Cybersecurity and Ethical Hacking, as well as the CompTIA Security+ certification examination.

Course Code: TGS-2026064614



Prerequisites

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:

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

Learning Units



Learning Unit 1

Summarising Fundamental Security Concepts



Learning Unit 2

Comparing Threat Types



Learning Unit 3

Explaining Appropriate Cryptographic Solutions



Learning Unit 4

Implement Identity and Access Management



Learning Unit 5

Maintain Enterprise Campus Network Architecture



Learning Unit 6

Secure Cloud Network Architecture



Learning Unit 7

Explain Resiliency and Site Security Concepts

Course Objectives

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

- ✓ Explain information security concepts, security control types, and key security roles and responsibilities.
- ✓ Analyse threat actor types, including their attributes and motivations, as well as common threat vectors and attack surfaces.
- ✓ Apply appropriate cryptographic solutions for encryption and key exchange using cryptographic algorithms, public key infrastructure, and digital certificates.
- ✓ Apply authentication, account policy, authorisation, and identity solutions, including password-based and multifactor authentication, single sign-on, and federated identity.
- ✓ Apply security principles and controls to secure on-premises network architectures and ensure secure communications for remote access and tunneling.
- ✓ Apply security principles to cloud infrastructure, embedded systems, and Zero Trust architecture.
- ✓ Apply asset management practices and physical security controls to protect organisational resources.



Programme Fee

S\$981.00

(inclusive of
9% GST)

PROGRAMME FEE AFTER ELIGIBLE SSG SUBSIDIES:

From **S\$114.30**

(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	S\$900.00	90% SkillsFuture Funding	S\$114.30
Singapore Citizens, PRs or LTVP+ Holders ≥ 21 years old		70% SkillsFuture Funding	S\$294.30

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\$900.00	90% SkillsFuture Funding	S\$114.30
Non-SME Singaporean Citizens, PRs or LTVP+ Holders ≥ 21 years old		70% SkillsFuture Funding	S\$294.30
Non-SME Singaporean Citizens ≥ 40 years old		90% SkillsFuture Funding	S\$114.30

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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