Eligible for Part-Time Training Allowance

Eligible For $4,000 SkillsFuture Level-Up Programme

(SCTP) Diploma in Infocomm Technology
(Infrastructure and Operations)

Course Code: TGS-2024044567

up to
95%
SkillsFuture Funding

Programme Description

The Diploma in IT Infrastructure and Operations (IIO) program is designed to provide advanced knowledge and practical skills for managing and optimising IT infrastructure.

Comprising eight modules, including a capstone project, the program covers a wide range of topics such as IT operations management, networking fundamentals, server administration, cloud computing, cybersecurity, project management, infrastructure automation, and disaster recovery planning.

Participants will gain expertise in enterprise architecture, infrastructure planning, security assessments, and IT project management. Through hands-on lab sessions, group discussions, case studies, and problem-based learning, participants will develop the skills necessary to lead and innovate in IT infrastructure and operations. Upon completion, participants will be equipped to conduct vulnerability assessments, design resilient IT infrastructures, and manage complex IT projects effectively.

Who Should Attend?

This program is tailored for individuals looking to advance their careers or switch careers into IT infrastructure and operations, including IT professionals, network and system administrators, cybersecurity experts, cloud computing enthusiasts, project managers, and technology enthusiasts.

Course Duration
Course Fee:

6 Months, 9.00 AM – 6.00 PM
From $954.80 (inclusive of 9% GST)
after 95% SkillsFuture Funding

Mode of Delivery: Face-to-Face Classroom

Programme Objective

Upon completion of this course, trainees should be equipped with the skills and knowledge to:

- Master the management, objectives, and maintenance of critical IT Infrastructure and Operations components, including storage, backup, and cloud technology, essential for effective leadership within an organisation's IT framework.

- Develop an IT landscape within an organisation based on Enterprise Architecture principles.

- Design and implement infrastructure solutions that prioritise performance optimisation with optimum network and storage design.

- Develop adaptable Business Continuity and Disaster Recovery Plans, including enhancing organisational resilience.

- Perform security/vulnerability assessment and generate vulnerabilities report on a target system, including the using of security tools.

- Utilise appropriate methods and techniques for a variety of IT and software project management activities.

- Automate and orchestrate IT infrastructure to enhance efficiency, reliability, and scalability through streamlined processes and integrated workflows.

- Conduct a thorough vulnerability assessment and penetration testing for a designated small business or organisation.

Minimum Requirement

To apply for the Diploma in Infocomm Technology (Infrastructure and Operations) Programme, you should possess one of the following qualifications or meet one of these criteria:
- Advanced Certificate in IT Infrastructure and Operations; OR
- Mature candidates ($\geq$ 30 years old with 8 years of work experience in a related field, including providing evidence of employment in their CVs); or
- Candidates with other qualifications will be considered on a case-by-case basis

Basic computer literacy and an advanced understanding of IT Infrastructure and Operations concepts are required.

Application Documents Required:
- Latest resume
- Highest qualification certificate and/or academic transcript
These documents will be reviewed as part of the screening process.

Programme Outline

Module 1: IT Infrastructure and Operations

- Learning Unit 1: Functions of IT Infrastructure (in organisations or businesses)
- Learning Unit 2: IT Operations Management
- Learning Unit 3: Networking Fundamentals
- Learning Unit 4: Server and System Administration
- Learning Unit 5: Storage and Data Management
- Learning Unit 6: Cloud Computing
- Learning Unit 7: IT Service Management (ITSM)

Module 2: Enterprise Architecture and Design

- Learning Unit 1: Introduction to Enterprise Architecture
- Learning Unit 2: Enterprise Architecture Cyclical Process (EACP) in depth
- Learning Unit 3: Design and Tools
- Learning Unit 4: Architecture Governance

Module 3: IT Infrastructure Planning and Optimisation

- Learning Unit 1: Introduction to IT Infrastructure Planning
- Learning Unit 2: Infrastructure Design and Architecture
- Learning Unit 3: Virtualisation and Cloud Infrastructure
- Learning Unit 4: IT Infrastructure Security and Compliance
- Learning Unit 5: Service Management
- Learning Unit 6: Performance Optimisation and Monitoring
- Learning Unit 7: Infrastructure Documentation and Communication

Module 4: IT Disaster Recovery and Business Continuity

- Learning Unit 1: Business Continuity Planning
- Learning Unit 2: IT Disaster Recovery Planning

Module 5: Advanced IT Security and Cybersecurity

- Learning Unit 1: Cyber Security Concepts
- Learning Unit 2: Architecture and Design
- Learning Unit 3: Threats, Attacks and Vulnerabilities
- Learning Unit 4: Cyber Security Attack Indicators
- Learning Unit 5: Security Assessments and Penetration Testing

Programme Outline

Module 6: IT Project Management

- Learning Unit 1: Introduction to Project Management
- Learning Unit 2: Project Integration Management
- Learning Unit 3: Project Scope Management
- Learning Unit 4: Project Schedule Management
- Learning Unit 5: Project Risk Management
- Learning Unit 6: Type of project management methodologies

Module 7: IT Infrastructure Automation and Orchestration

- Learning Unit 1: Introduction to IT infrastructure Automation and Orchestration
- Learning Unit 2: Command-line Shell and PowerShell scripting language
- Learning Unit 3: Infrastructure as Code Fundamentals
- Learning Unit 4: Automation via PowerShell, ARM Templates and Azure Blueprints
- Learning Unit 5: Configuration management via PowerShell Desired State Configuration (DSC)

Module 7: Capstone Project – Real-world IT Project

The Capstone Project: Audit or Design IT Infrastructure module comprises five learning units that aim to equip the trainees with the essential skills and knowledge to conduct a thorough vulnerability assessment and penetration testing for a designated small business or organisation.

POST–COURSE **SUPPORT**

Complete course

Coaching and mentoring

Career Advisory and Resources Support

WHY WE ARE **DIFFERENT**

@ASK TRAINING	OTHER INSTITUTES
✓ Instructors are subject matter experts	✗ Instructors may not have sufficient subject matter expertise
✓ Instructors are certified facilitators with the WSQ Advanced Certificate in Learning and Performance (ACLP)	✗ Instructors' teaching experience may be inadequate
✓ Courseware is up-to-date	✗ Courseware may be outdated
✓ Training is hands-on with real world project-based assignments	✗ Curriculum and lesson plan may be unstructured and lack engagement
✓ Career Advisory and Resources Support Programme	✗ Training may be loaded with lectures without opportunity to practice concepts taught
	✗ Certificate may not be recognised
	✗ No career services offered

@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

95% funding and Career Advisory and Resources Support Programme.

Programme Fee / Funding Information

S$12,400
(exclusive of 9% GST)

PROGRAMME FEE AFTER ELIGIBLE SSG SUBSIDIES:

From **S$954.80**

(inclusive of 9% GST) after 95% SSG Subsidies

Self-Sponsored	Course Fee before Subsidy and GST	Eligible Funding		Nett Fees Payable incl. 9% GST
Singapore Citizens ≥ **40 years old**	S$12,400	**90%**	SkillsFuture Funding	S$1,574.80
Singapore Citizens, PRs or LTVP+ Holders ≥ **21 years old**		**70%**	SkillsFuture Funding	S$4,054.80

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$12,400	**90%**	SkillsFuture Funding	S$1,574.80
Non-SME Singaporean Citizens, PRs or LTVP+ Holders ≥ 21 years old		**70%**	SkillsFuture Funding	S$4,054.80
Non-SME Singaporean Citizens ≥ 40 years old		**90%**	SkillsFuture Funding	S$1,574.80

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.

Diploma in Infocomm Technology (Infrastructure and Operations)
Course Code: TGS-2024044567

Visit our website:
https://asktraining.com.sg/it-courses/diploma-in-infocomm-technology-infrastructure-and-operations/

Call
6484 6723

Whatsapp
9430 3852

Email
information@asktraining.com.sg

Location:
8 Jurong Town Hall Road
#27-01 The JTC Summit
Singapore 609434