

通过实践掌握数据通信技能，  
提高学生的教育与就业机会。  
*With hands-on knowledge of data communication skills  
to enhance their educational and employment opportunities.*



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# 互联网基础建设 电脑网络科技

IT INFRASTRUCTURE  
Computer Networking (ITNET)



- » 80% 实践训练  
80% Practical Skills
- » 20% 理论  
20% Theory
- » 2+1 课程  
2+1 Learning
- » 16岁以上即可报读, 无需入学资格  
Entry Requirement: 16 Years Old & Above
- » 教学媒介语以中文为主, 英文为辅  
Medium of Instruction: Chinese & Simple English

# 2+1 年课程

## Years Course

本课程为因应资讯科技的迅猛发展及有以下意愿的学生而设：  
**This qualification was developed to keep pace with the fast changing information technology sector and for candidates who want :**

- 维护、支援ICT系统  
To maintain and support ICT systems
- 在资讯与通讯科技(ICT)谋求职业发展  
Career progression within the Information and Communication Technology (ICT) industry
- 建立小型及中型电脑网络  
Handle small and medium size computer networking.

此两年制互联网基础建设与网络科技技职课程教导学生通过实践掌握数据通信技能，提高学生的教育与就业机会。  
The two-year Vocational Course in IT infrastructure and networking provides student with hands-on knowledge of data communication skills to enhance their educational and employment opportunities.

### 学生将学习 / Students will learn and be able to:

- » 安装、配置和维护网络系统与基础设施。  
Installing, configuring and maintaining, network systems and infrastructure.
- » 按照网络程序的行业标准执行工作。  
Working to industry standard networking procedures.
- » 各类型网络和服务器的系统包括网络安全的管理。  
Various types of network and server systems administration including their security aspects.
- » 安装设计、构建及维护复杂的路由器WAN、交换式LAN网络及拨号访问服务。  
Installing designing, building and maintaining complex routed WAN, switched LAN networks, and dial access services.
- » 掌握Linux、资讯工艺要点、语音与数据布线及Java技术。  
Skills in Linux, IT essentials, voice and data Cabling, and Java.
- » 建设网站的基本网络技能到高级VLAN的排除故障技能。  
Building a website to basic networking skills to advanced VLAN troubleshooting.
- » 配置与管理网络伺服器并利用不同的脚本环境构建应用程序。  
Configure and manage web servers and build applications using different scripting environments.
- » 网络设计与系统测试。  
Network design and systems testing.
- » 客户服务要领、人际沟通与团队合作技能。  
Essential customer service, interpersonal communications and teamwork skills.

## 课程内容 / Course Outline

### YEAR 1 第一学年

#### 第一学期 / Semester 1

- 编程概论  
Introduction to Programming
- ICT实务技能  
Practical ICT Skills
- 操作系统(Linux)  
Operating System (Linux)
- 资讯科技概论  
Introduction to Information Technology
- 职场英语 (1)  
Workplace English communication (1)

#### 第二学期 / Semester 2

- 资讯科技与社会  
IT and Society
- 网络系统  
Computer Networking
- 管理信息系统  
Managing Information Systems
- 互联网基础建设  
Internet Infrastructure
- 数码影像  
Digital Imaging

#### 第三学期 / Semester 3

- 系统管理  
System Administration
- 网页设计和开发(HTML 5,Java Script & XML)  
Web Design and Development (HTML 5, Java Script & XML)
- 网页与伺服器址编程(PHP)  
Web and Server Site Programming (PHP)
- 数据库系统(MySQL,NoSQL)  
Database Management Systems (MySQL, NoSQL)
- 电子商务系统  
E-Commerce Applications
- 与工作相关的软技能  
Work-based Soft Skills

### YEAR 2 第二学年

#### 第四学期 / Semester 4

- 网络路由与交换技术  
Network Routing and Switching
- 接入广域网(WAN)  
Accessing the WAN
- 系统分析与设计  
Systems Analysis and Design
- 使用C#进行对象定义程式  
Object-oriented Programming using C#
- 职场英语 (2)  
Workplace English communication (2)

#### 第五学期 / Semester 5

- 网络协议与概念  
Network Protocols and Concepts
- Python程式  
Python Programming
- 电脑技术创新  
Innovative Technologies in Computing
- 网络设计与支援  
Network Design and Support
- 网络安全  
Cyber Security

#### 第六学期 / Semester 6

- 技术创业  
Technopreneurship
- 灾难恢复管理  
Disaster Recovery Management
- R and Hadoop大数据技术  
Big Data Technologies with R and Hadoop
- 电脑网络技术项目(毕业制作)  
Computer Networking Project (Major Project)

\* Please note that the modules listed are indicative and may be subject to change.

## OFQUAL认证

OFQUAL 为英国政府资历及考试规例局，受英国议会监察。

所有学习材料均由该领域的专业人士和专业学术作者设计和编写，以便每个互动模块都符合OFQUAL规定的特定学习标准，OFQUAL是英国高等教育学术标准的英国政府机构。这些标准确保学生获得高质量的教育以及大学的认证和雇主认可。

## OFQUAL Recognition

The Office of Qualifications and Examinations Regulation (OFQUAL) regulates qualifications, examinations and assessments in England.

All learning materials are designed and written by expertise in the field and professional academic authors so that each interactive module is aligned against specific learning criteria specified by OFQUAL, the defining UK Government body for Academic Standards in UK Higher Education. These standards ensure those that learn with us receive a high quality education along with certification that is recognised universally by Universities and employers.



## 评估标准 / ASSESSMENT

100%作业及实践练习，本课程提供电脑网络科技的理论20%与实践80%，聚焦于工作场所的实际应用。鼓励团队合作，让学生学会分组合作或单独工作以完成专题作业。

100% Assignment and Practical Exercises. The course offers both the theory (20%) and practice (80%) of Computer Network communication, with a focus on the practical application of these skills in the workplace. Teamwork is encouraged and students learn to work in groups to complete their projects.



## 考取资格 / QUALIFICATIONS

英国国立西苏格兰学院专业文凭和专业高级文凭  
Diploma and Advanced Diploma awarded by West College Scotland, UK

台湾文凭(由台湾各大学颁发)  
Diploma Qualification from Taiwan University

第五级专业文凭(资格获得OFQUAL英国政府学历及考试评审局承认)[选择性]  
Level 5 Diploma (Regulated by OFQUAL - Office of Qualification & Examination Regulation) [Optional]



## 就业前景 / CAREER PATHWAYS

网络技术员、网络管理员、系统工程师、网络工程师、网络安全分析师、资讯科技执行员、资讯科技监督员、资讯科技执行员、网络建构技术工程师、网络服务管理工程师、网络系统分析师、网络安全分析师、网络软件开发工程师、网络系统管理人员、数据库管理人员等等。

Network Technician, Systems Administrator, Network Engineer, Systems Engineer, Security System Engineer, IT Supervisor, IT Executive, IT Infrastructure Engineer, Server Maintenance Engineer, Network Systems Analyst, Security Analyst, Network Software Developer, Network Systems Manager, Database Administrator, etc.