

QUALIFICATION

(Higher Certificate in Engineering in
Telecommunications and Data Network Engineering)

MODULES | YEAR 1

SEM 1

Network Installation,
Health & Safety

Telecommunications
Technology & Service
Restauration

SEM 2

Electrical
Principles

Customer
Service

MODULES | YEAR 2

SEM 3

Broadband &
Wireless Skills

Optic Fibre
Installation

SEM 4

Optic Fibre
Maintenance &
Commissioning

Personal &
Professional
Development

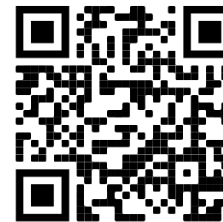
HOW TO APPLY

- ① CSG agrees the size of the apprenticeship intake for the academic year
- ② All companies engaging must be registered with and approved by SOLAS
- ③ CSG agrees general allocation of places if necessary
- ④ Companies hire employees for registration
- ⑤ Companies register employees as apprentices with SOLAS
- ⑥ TUDublin organises induction session for apprentices
- ⑦ TUDublin commences apprentice programme

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Rialtas na hÉireann
Government of Ireland

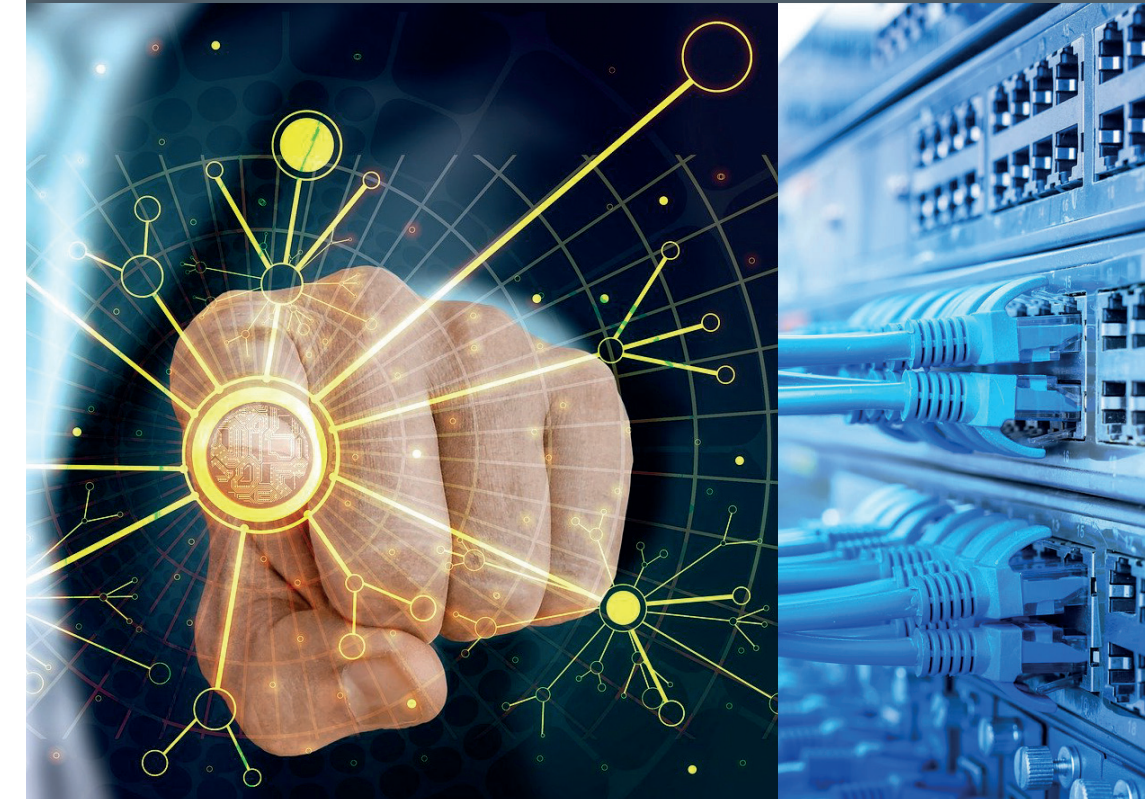
SOLAS
An tAidís Oideachais Léarnúil agus Sceimne
Further Education and Training Authority

HEA | AN tÚDARÁS um ARD-OIDEACHAS
HIGHER EDUCATION AUTHORITY



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Telecommunications & Data Network Technician Apprenticeship

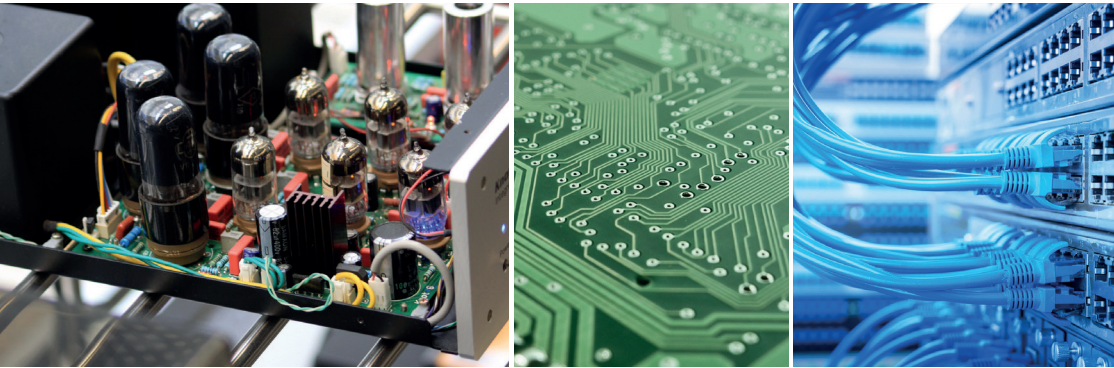
(Higher Certificate in
Engineering in Telecommunications
and Data Network Engineering)



INTRODUCTION TO APPRENTICESHIP

An apprenticeship is the recognised means by which apprentices receive comprehensive training in order to become skilled in a particular area of employment. Apprenticeship training provides alternating on-the-job training in conjunction with off-the-job training in Education and Training Boards and selected higher education institutions.

An apprenticeship normally has a specified duration depending upon the industrial sector. Apprentices sign an employment contract with the employer when commencing the apprenticeship



WHO IS THE PROGRAMME SUITED TO?

People seeking skilled employment often face a challenge that relevant work experience is a prerequisite for many jobs. But for many people, including school leavers, it is difficult to gain the required experience without being in the workplace. An apprenticeship offers the opportunity to gain the knowledge, skills, and experience needed for entry or advancement into a particular skilled career field. This two-year programme was developed in collaboration with the telecommunications industry and is designed to take a low skills entry level position to full occupational proficiency. The telecommunications

industry currently has an overarching need for technicians and this programme will help satisfy the need for the availability of highly skilled technical employees for on-going network deployment projects.

THE TELECOMMUNICATION SECTOR & INDUSTRY

- Communications technology has transformed our professional and social lives and is at the heart of Ireland's innovation economy. From fibre broadband rollout, to 4G capability, to data centres and cloud based services, this industry is the support that provides instant connectivity to people, services, entertainment and information on demand.
- The growing need for a robust, reliable and expanding communications infrastructure poses significant challenges to telecommunications companies in terms of required competencies and the availability of qualified personnel. In recent years a significant skills gap has developed in the industry, which threatens the sector's ability to expand broadband coverage across the nation.
- In order to address this urgent need for expertise, companies from the telecommunications sector in partnership with TU Dublin, have developed a 2 year Telecommunications and Data Networks Technician Apprenticeship.

In cooperation with:



ENTRY REQUIREMENTS

The company will employ the apprentice and offer the contract of employment. An apprentice cannot attend the off-the-job sessions at TU Dublin without being first employed by a registered employer. Some general entry qualifications for the apprenticeship can be listed as follows:

- Applicant must be employed by a SOLAS - approved employer within the Telecommunications sector
- Applicant must hold a Leaving Certificate with a minimum of Grade O6/H7 or better in 5 subjects in the Leaving Certificate including English or Irish and Mathematics. A Pass in Foundation Level Irish (F3) is acceptable for this course. Alternatively an applicant can hold a level of qualification which is deemed equivalent to the requirements in the Leaving Certificate

TIMELINES & COURSE MODULES

The apprenticeship in Telecommunications and Data Network Engineering involves a 24 month apprenticeship contract with an employer which incorporates both on-the-job and off-the-job elements. Over the lifetime of the apprenticeship a total of eight blocks, each of two weeks duration, will be spent attending class and practical laboratories at TU Dublin.

The eight "off-the-job" blocks incorporated within the apprenticeship require full-time attendance (Monday to Friday) at TU Dublin for duration of two weeks on each occasion. In addition during the on-the-job elements a significant period of time will be spent in the form of work based learning with the employer in order to complete the Programme modules. Four modules will be completed in year 1 and four in year 2.