

### APPRENTICESHIP IN INDUSTRIAL ELECTRICAL ENGINEERING NFQ LEVEL 7

#### CODE: TBC

#### 2 YEAR PART TIME

#### Who is this course for?

The new Apprenticeship in Industrial Electrical Engineering leading to the award of a Level 7 Bachelor of Engineering (B.Eng.) Degree is specifically designed as a progression programme for Qualified Electricians who wish to upskill and to acquire advanced knowledge, competences and skills to move into engineering roles in Industry.

#### Entry Requirements

Applications to the programme can only be submitted by registered Employers. The programme is primarily designed for qualified electricians who meet the entry criteria below.

1. Holder of the Advanced Certificate (Level 6) in Craft (Electrical)
2. Holder of the Advanced Certificate (Level 6) in Craft (Electrical/Instrumentation) or Craft (Refrigeration)
3. Holder of a Higher Certificate in Electrical Engineering (Level 6), or a cognate Level 6 Electrical Certificate, with relevant industrial electrical experience
4. Registered Electrician with qualifications (National Craft Certificate / Senior Trades) other than in (1) or (2) above, can apply for access through recognition of prior learning process.

Apprenticeship contracts of employment are with a registered employer. An application for entry to the Programme must be submitted by the employer.

#### Course Timetable

The course will run over one day and one evening each week. Some additional Saturday sessions will also occur during each Semester. Self-directed work will also be required out of term.

#### Course Summary

During the Programme the student will gain a thorough understanding of the theory, concepts and methods in the engineering sciences, electrical technologies, mathematics, ICT, as well as in the design and engineering practice relevant to the Industrial Electrical Engineer. The Programme will also allow the student acquire the ability to derive knowledge and apply analysis from the electrical engineering sciences in the design of practical solutions to complex problems in the fields of electrical engineering, energy technology and industrial control systems while taking into account any inherent limitations.

#### KEY DATES

INDUCTION	1 <sup>st</sup> /8 <sup>th</sup> September 2018
CLASSES BEGIN	Mid-September 2018
Classes at ITT complete in mid-July 2019 and ongoing independent work by the student is expected to continue throughout the life of the programme.	
EXAMS	January and May 2019

### Career Opportunities

The Industrial Electrical Engineer will be equipped to design, plan, risk assess, program and commission a wide range of industrial electrical systems safely and in line with all relevant Irish and EU standards.

The Industrial Electrical Engineer will also be trained to lead fault-finding and troubleshooting of complex electrical equipment, to present proposals & analysis within the company, to carry out statistical analysis & investigation, to compile system documentation, and to constantly assess the needs for upgrading of industrial electrical systems in terms of safety, environmental and technological aspects.

### Benefits to your company

The course is a 2-year employer-led apprenticeship with 70% of the learner's time spent on the job. The blend of modules means that your apprentice can remain working in their current role for the duration of the 24-month apprenticeship contract. The apprentice will spend 1 day and one evening per week in IT Tallaght over the 2-year timeframe. Your apprentice will be assigned an academic supervisor from IT Tallaght and at all stages of the programme will have the support of the academic staff and services of the Institute. The work-based projects which are undertaken during the apprenticeship are intended to deliver significant value to your company.

### Employer Registration

As part of the national apprenticeship system, there are formal requirements for approval of an employer's suitability to train apprentices and for registration of apprentices. SOLAS is

responsible for delivering on these requirements. Applications for entry to the apprenticeship can only be submitted by an employer who is registered for the Industrial Electrical Engineering Apprenticeship on the SOLAS Apprenticeship Client Services System. Employers can contact IT Tallaght directly to initiate the registration process or can contact the apprenticeship training advisor from their local Education & Training Board (ETB).

### Employer Approval

In conjunction with their ETB Training Advisor, the Employer must complete the 'Employer Suitability to Train Apprentices Form' (TSS-8i-F1/V3) and have it approved by the Employer's Authorised Signatory. The form declares that the Employer agrees to comply with the Apprenticeship Rules and Regulations and abide by the Code of Practice, copies of which are available from SOLAS or from the local training centre. Key commitments include providing access for the apprentice to the range of work specified in the on-the job elements of the apprenticeship programme and to releasing the apprentice to complete all the necessary off-the-job elements. The Employer must provide details of the Apprenticeship Co-ordinator or Manager (Verifier) who will have responsibility for the programme in the Company.

### Choosing a Mentor

The Employer must also provide details of a Mentor who will advise the Apprentice Engineer on their professional and educational development. The Mentor should have a minimum relevant qualification, such as a Level 7 Engineering or Technology Degree.

Alternatively, experienced practitioners with at least five years' experience of industrial electrical systems would also be considered suitable. Guidance and support for the mentor will be provided by IT Tallaght. The Apprentice will also be mentored by an Academic Supervisor from IT Tallaght for the on-the job stages.

### Apprentice Registration

Apprentices from a registered employer, whose application has been approved, can apply for statutory apprenticeship registration with SOLAS. In conjunction with the training advisor, the Employer and Apprentice must complete the 'Apprentice Registration Form' (TSS-8i-F2/V7). The apprentice will receive written confirmation of their registration within 28 days along with arrangements for a mandatory apprenticeship briefing session.

### Costs

For all new apprenticeships, the employer is responsible for the wages/salary of the apprentice during the 24 months of the programme. There is no specified training rate or salary level, that must be agreed between the Employer and their Apprentice. The programme has fees that are currently set at €2,400 per year. These are payable by the apprentice and may be sponsored/subsidised by their Employer.

### How to Apply

**Employers can apply directly to IT Tallaght to initiate the registration process**

### Please Note

You will be required to pay a €100 application fee with your application. If you are not offered a place on the course your application fee will be refunded. If you are offered a place on the course your fee will be put towards you full course fees. If you do not accept the offered place you will forfeit the application fee.

The balance of fees due are as follows:

**On acceptance of place - €550**

**Payment of half your course fees due by 31 October 2018.**

**Payment of full fees due by 31 January 2019.**

### Programme Schedule

The IT Tallaght based modules will be delivered 1 day and 1 evening per week. Likely from 9am to 9:30 pm on a Thursday. Additional Saturday sessions will be required during each semester.



- Industry Based Work
- IT Tallaght Based
- IT Tallaght Based Electives (choose 2)

#### For further information – course specific

Please Contact: [william.rafferty@it-tallaght.ie](mailto:william.rafferty@it-tallaght.ie)

#### For queries on the application process

Please contact [LLL@it-tallaght.ie](mailto:LLL@it-tallaght.ie) or phone the Lifelong Learning Team @ 01-4042101