1996

Part-time Courses 1996-97

City of Dublin Vocational Education Committee

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DIT Part-Time Courses

at

BOLTON STREET

1996-97

REF

Calendar

DIT Box

Dublin Institute of Technology

Sráid Bholtúin
CONTENTS

Student Information 4

SURVEYING AND BUILDING
Construction Technology Certificate/Diploma 6
Professional Course in Construction Studies 7
Construction Economics Diploma/Degree 8
Graduate Diploma in Arbitration Law 9
Graduate Diploma in International Arbitration Law 10
Graduate Diploma in Planning and Development Economics 11

ENGINEERING TECHNOLOGY
Foundation Course in Engineering 12
Degree in Engineering 13
Civil Engineering Technician Certificate and Diploma Course 14
Building Services Engineering Technician Certificate and Diploma Course 15
Mechanical Engineering Technician Certificate and Diploma Course 16
Certified Manufacturing Technologist 17
Refrigeration Engineering Technician 18

COMPUTING
Introductory Programming 19
Computer Programming 20
Advanced Programming 21

AUTOCAD 22
AUTOCAD – Three Dimensional 23
AUTOCAD – Customisation 24
Word Processing and Desktop Publishing 25
Spreadsheets and Databases 26

CONSTRUCTION RELATED COURSES
Decorative Plaster Work 27
Visual Design in Building Work 27
Signwork – Advanced (Parts 1 and 2) 28
Buildings Maintenance Management (Modular) 29
Advanced Carpentry and Joinery 30
Woodcutting Machining 30
Woodturning 31
Timber Technology 31
Building Technology 32
Craft Based Technician Course in Building 33
MMA and Oxy Acetylene Course – Welding 33
Gas Shielded Arc Welding 34
MMA Advanced Plate and Pipe Welding 35
Pipe Fabrication 36
Light Gauge Fabrication 36
Welding Repair and Maintenance 37
Art Metal Casting 37
Plumbing (Advanced) 38
Craft Technicians Certificate in Plumbing 38
Tendering and Estimating Practice 39
Domestic Heating Engineers 39
Advanced Level Refrigeration and Air Conditioning 40
Efficient Energy Practice 40

OTHER ENGINEERING COURSES
Certificate in Quality Assurance 41
Certificate/Diploma in Quality Management 42
General Maintenance Technology 43
Maintenance Organisation 44
Pneumatics 45
Hydraulics 46
Mechanical Power Transmission 47
Machine Tool Systems 48
Plant Installation and Commissioning 49
Mechanical Engineering Craft Studies – Inspection (Metrology) 50
Mechanical Engineering Technician Course 51
NC/CNC Machine Setting and Operation 52
CNC Part Programming 53
Advanced Part Programming 54
Programmable Logic Controllers 55

TRANSPORT ENGINEERING
Flight Operations Officer (Dispatcher) Course 56
Production Planning Course (IATA) 56
Aeronautical Maintenance Engineers’ Licences 57
Jet Engine Overhaul Procedures 58
Aeronautical Engineering Craft Studies 58
Basic Aeronautical Engineering Certificates 59
Private Aircraft Pilots Licence 60
Private Pilots Licence (Instrument Rating) 60
Motor Cycle Mechanic 61
Motor Vehicle Parts Personnel 61
Motor Vehicle Parts Personnel – Distance Learning Programme 62
Motor Vehicle Diagnostic Techniques 62
Compressed Air Systems and Fuel Injection in C.I. Engines 63
Motor Vehicle Craft Studies – Electricity/Electronics 63

Auto-Engineering Technician 64
Automobile Engineering Updating Courses – Continuing Education Programme 65
Technological Certificate in Automobile Engineering 66
Motor Industry Management Certificate/Higher Certificate 67
Road Transport Studies 68

PRINTING AND GRAPHIC COMMUNICATIONS
Book and Archive Restoration 69
Print Finishing 69
Introduction to Printing Technology 70
Cost Accountancy for Printers 70
Estimating for Printers 71
Paper Technology 71
Design for Print 72
Introduction to Management (Graphic Industries) 73
Packaging Principles and Practice 73
Bookbinding and Print Finishing Retraining 74
Lithography and Photolithography Retraining 74
Advanced Lithographic Printing and Platemaking 75
Desk Top Publishing 75
Advanced Desk Top Publishing 76
Screen Printing 76

Other Part-Time Courses

Course Fees:
It should be noted that the fees listed in this booklet cover DIT courses only. Some courses may require membership of an outside body which involves the payment of additional fees. Such fees are payable directly to the professional body concerned.
**Student Information**

**DIT Opening Hours:**
DIT centres are open each day from 9 a.m. to 10 p.m. and on Saturdays from 10 a.m. to 5 p.m.

**Parking:**
There is on-street parking adjacent to most DIT centres. The locations of public car parks are shown on the city map on the back cover of this booklet. Students should check carefully in advance the opening/closing times of these car-parks.

**Bus Routes:**
- **DIT at Cathal Brugha Street** – Nearest point: O’Connell Street. Any city centre route.
- **DIT at Mountjoy Square** – Nearest points: Gardiner Street. Routes 41, 41A, 41C, Dorset Street. Routes 3, 11, 16, 40, 40A.
- **DIT Rathmines House** – Nearest point: Rathmines Road. Routes 14, 14A, 15, 15A, 15B, 47, 47A, 47B.

**Library Facilities:**
Each DIT centre has its own comprehensive library facility. Libraries are open from 9.30 a.m. to 9.30 p.m. on Monday – Friday and from 10 a.m. to 5 p.m. on Saturday. All part-time students will be supplied with student cards to enable them to use libraries to borrow books and to avail of inter-library loans. Library staff are always available and willing to help students find information.

**Restaurants:**
Hot meals are served in DIT centres until 7 p.m. each evening and snacks are available from 7 – 9 p.m. On Saturdays snacks are served from 10 a.m. until 3 p.m.

**Students’ Union Shops:**
Each centre has a Students’ Union shop where students may purchase stationery, confectionery, soft drinks etc. These shops are conveniently located and remain open until 8 p.m. each evening when evening classes are scheduled.

**Photocopying:**
Students may avail of photocopying facilities by using a special photocopying card. These cards may be purchased from vending machines in DIT libraries.

**First Aid:**
A First Aid service is available when DIT centres are open (except Adelaide Road). Students should check locally for details.

**Computer facilities:**
Computer facilities will be available for students each Saturday during term time. Centres are open on Saturdays from 10 a.m. to 5 p.m.

**Chaplaincy:**
A chaplaincy service is available most evenings. Students should check locally for details.

**Counselling Service:**
The DIT Student Counselling Service is a confidential service staffed by a team of Counselling Psychologists with an office in each of the six DIT centres. The Counselling service aims to help students to identify and solve any difficulties, large or small, that might interfere with academic and personal development. Some of the issues that a student might talk to a counsellor about would include social/personal difficulties, financial worries, studies worries, to name but a few. However, you don't have to have enormous problems before you talk to a counsellor. In addition to individual counselling, the service offers a variety of workshops/training seminars in such areas as study skills, stress management, communication skills etc. Students can make an appointment by telephoning the central office or by making direct local contact with the counsellor.

**Applicants with disabilities:**
Such applicants should contact the appropriate DIT centre well in advance of enrolment to discuss particular needs and the possible availability of any special facilities required.

**Telephones:**
Each DIT centre is equipped with a number of pay phones and card-phones. The porters’ office can provide information on location.

**Emergencies:**
In the case of an emergency evacuation of a DIT building, students will be required to make their way to designated assembly points. These will be clearly signposted in each centre and students should familiarise themselves with the location of these points.
### B702
**CONSTRUCTION TECHNOLOGY CERTIFICATE/DIPLOMA**

**Description:** The course is designed to meet the needs of those pursuing a career at technical/managerial level in the construction industry.

**Content:**
- **First Year:** Building materials and science, construction technology, financial management, mathematics.
- **Second Year:** Land surveying, construction technology, financial management, mathematics.
- **Third Year:** Computing, estimating and tendering, construction technology, quantity surveying, law of tort, economics.
- **Fourth Year:** Building management, construction technology, quantity surveying, contract administration.

**Duration:** Four years part-time, one full day and two or three evenings per week.

**Entry Requirements:**
- a) Irish Leaving Certificate with passes in five subjects including Mathematics and either Irish or English OR equivalent qualifications OR Senior Trade Certificate.
- b) Appropriate employment in the construction industry.
- c) Letter of guarantee of release for the appropriate day from the student’s employer.

**How to Apply/Enrol:** Postal application taken on enclosed form for those intending to pursue a career at technical/managerial level in the construction industry.

**Course Fee:**
- 1st, 2nd and 3rd years £330, 4th year £230.

**Examinations:** One written paper subject plus continuous assessment.

**Award:** Certificate after successfully completing three years, Diploma after successfully completing the fourth year awarded by The Dublin Institute of Technology.

**Career Opportunities:** Various opportunities usual within building, contracting and sub-contracting organisations.

**Further Information:** The Department of Surveying and Building Technology.

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### B703
**PROFESSIONAL COURSE IN CONSTRUCTION STUDIES**

**Description:** To prepare students who are exempt from the Member Examinations Part 1 of The Chartered Institute of Building to take Membership Examinations Part 2.

**Content:**
- Building technology, building management, administration, building economics and finance, and project evaluation and development.

**Duration:** One year, one or two evenings per week depending on the number of subjects being studied.

**Entry Requirements:**
- DIT Diploma or NCEA Diploma which exempts the holder from the Member Examinations Part 1 of the CIOB.

**How to Apply/Enrol:** Postal application taken on enclosed form for those who wish to complete the professional examinations of the CIOB.

**Course Fee:** £330 per year.

**Examinations:** Member examinations Part 2 of CIOB.

**Award:** For successful examinees and exemption holders a professional interview based on a report (of managerial experience) prepared by the candidate must be passed before becoming a corporate member of the CIOB. Awarded by the Chartered Institute of Building.

**Career Opportunities:** Employment opportunities at managerial level in the construction industry mainly in the area of building production.

**Further Information:** Department of Surveying and Building Technology.
**CONSTRUCTION ECONOMICS DIPLOMA/DEGREE**

**Description:**
To educate the student for a career as a professional quantity surveyor or in related areas in the construction industry.

**Content:**
1st year: Quantitative methods, construction law, construction studies, land surveying.
2nd year: Quantitative methods, construction law, construction studies, tender documentation and professional development.
3rd year: Construction studies, construction management, economics and financial management, tender documentation.
4th year: Construction studies, administration of contracts and law, economics and financial management, computers.
5th year: Tender documentation, construction studies, economics and financial management, building economics, construction administration and management, computers.
6th year: Tender documentation, construction administration and management, building economics, computers, dissertation.

**Entry Requirements:**
Applicants should have:
a) Irish Leaving Certificate with passes in six subjects, including Mathematics and either Irish or English. At least two of the subjects must be at Grade C3 or better on higher level papers OR equivalent qualifications or
b) Appropriate employment with a professional Q.S. or in a relevant area in the construction industry. Holders of the Construction Technology Diploma (distinction or merit) OR a suitable N.C.E.A. Diploma (distinction or merit) may apply for entry to the fourth year of the course.

**Duration:**
Six years part-time – one full day and two evenings per week.

**How to Apply/Enrol:**
Postal applications taken on enclosed form for those intending to pursue a career as a professional Q.S. or in a related area in the construction industry.

**Course Fee:**
£650 per year including exam fees.

**Examinations:**
One to three written papers per subject plus continuous assessment.

**Award:**
Construction Economics Diploma (Dublin Institute of Technology) and B.Sc. (Surv.) Degree (University of Dublin).

**Career Opportunities:**
Opportunities for employment as a professional Q.S. or as a contractor's Q.S. or in other managerial positions within the construction industry.

**Further Information:**
Department of Surveying and Building Technology.

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**GRADUATE DIPLOMA IN ARBITRATION LAW**

**Description:**
To provide the participant with a knowledge of the law and practice of arbitration.

**Content:**
The course comprises three modules:
a) Legal principles, civil procedures and evidence
b) Contract and tort
c) Arbitration law and procedures, alternative methods of dispute resolution.

**Entry Requirements:**
Relevant professional qualification e.g. Law, architecture, engineering, surveying etc. (Exemptions are available in modules a and b for holders of a recognised law degree).

**Duration:**
One year part-time. (This course normally runs in alternate years. It is expected that it will be offered in 1997/98).

**How to Apply/Enrol:**
Postal application taken on enclosed form for professionals who are interested in acquiring a qualification in arbitration law.

**Course Fee:**
£900 full fee or £550 partial fee for persons exempt in modules a and b. There is a separate charge of £275 for two award writing seminars.

**Examinations:**
One written examination in each module and the writing of a reasoned award.

**Award:**
Graduate Diploma in Arbitration Law awarded by the Dublin Institute of Technology.

**Career Opportunities:**
Facilitates graduates wishing to widen their career options.

**Further Information:**
Department of Surveying and Building Technology.
GRADUATE DIPLOMA IN INTERNATIONAL ARBITRATION LAW

Description: To provide the participant with a knowledge of the law and practice of international arbitration.

Content: Comparative law and procedure, international arbitration, practice and procedure. Four special seminars on specific aspects of international arbitration.

Entry Requirements: Application open to holders of the DIT Diploma in Arbitration Law, Fellows of the Chartered Institute of Arbitrators, or holders of Parts I and II examinations of the Institute. Selection may be subject to interview.

Duration: One year part-time. (This course normally runs on alternate years. It is expected that it will be offered in 1996/97).

How to Apply/Enrol: Postal applications taken on enclosed form from qualified applicants who are interested in acquiring a qualification in international arbitration law.

Course Fee: £600 per year. There is a separate charge of £450 for four seminars.

Examinations: One written examination in each module. In addition participants must achieve a pass in the special seminars.

Award: Graduate Diploma in International Arbitration Law awarded by the Dublin Institute of Technology.

Career Opportunities: Qualified graduates may seek opportunities in the rapidly growing area of international arbitration.

Further Information: Department of Surveying and Building Technology.

GRADUATE DIPLOMA IN PLANNING AND DEVELOPMENT ECONOMICS

Description: To meet the educational needs of those wishing to practice as Planning and Development Surveyors.

Content: Part I: Valuations, law, urban land economics, taxation and rating, building technology and management, principles and techniques of planning.

Part II: Planning and development policies, practice and procedures.

Entry Requirements: 1. a) A recognised professional qualification in the field of planning, architecture, surveying, engineering, law, accountancy. OR

b) An honours degree in an appropriate discipline e.g. surveying, economics, law, geography, business studies.

2. Employment in and/or evidence of appropriate post-certification work experience in the built environment field.

Duration: Two years part-time. (This course normally runs in alternate years. It is expected that it will be offered in 1996/97). One day per week, normally Mondays, from 1.30pm to 9.30pm. Depending on demand other arrangements may be possible.

How to Apply/Enrol: Postal application taken on enclosed form from qualified applicants interested in the area of planning and development economics.

Course Fee: £850 per year.

Examinations: Formal written examinations at the conclusion of each academic year in addition to project work and a major case study.

Award: Graduate Diploma in Planning and Development Economics awarded by the Dublin Institute of Technology.

Career Opportunities: Enhanced career opportunities for those already employed in the built environment industry/professions. Full exemption from the academic requirements leading to corporate membership of the planning and development division of the Society of Chartered Surveyors/Royal Institute of Chartered Surveyors.

Further Information: Department of Surveying and Building Technology.
FOUNDATION COURSE IN ENGINEERING

The aim of this course is to enable students who already hold a relevant Technician Diploma qualification to proceed to a degree in one of four engineering disciplines by means of part-time study.

Content:
Three subjects from the second year of the full-time course are studied for one academic year. For students who intend to specialise in any one of Mechanical, Manufacturing or Building Services Engineering these subjects are:
- Mathematics and Statistics
- Fluid Mechanics
- Thermodynamics.

For students who intend to specialise in Structural Engineering these subjects are:
- Mathematics and Statistics
- Fluid Mechanics
- Mechanics of Materials II.

Entry Requirements:
Applicants who hold a DIT/NCEA Diploma in a relevant discipline at Distinction level are eligible for direct entry to year 1 of the degree course. Applicants who hold this qualification at Merit or Pass level may enter the Foundation course.

Duration:
1 year, three evenings per week.

How to Apply/Enrol:
Postal applications taken on enclosed form from students with relevant Technician Diploma who intend to enter the three year part-time Engineering Degree course on completion.

Course Fee:
£330.

Examinations:
Examinations are held at the end of each academic year in the subjects taken during that year. Repeat examinations are held in early September.

Award:
DIT Certificate of completion.

Further Information:
The Department of Engineering Technology.

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DEGREE IN ENGINEERING

This course is taken over three academic years. Currently it is possible to specialise in one of the following engineering disciplines:
- Mechanical Engineering
- Structural Engineering
- Building Services Engineering
- Manufacturing Engineering.

A typical study pattern is as follows:
In the first year five subjects from the third year of the full-time course are studied. In the second year the remaining third year subjects are taken together with two subjects (one of which will be Mathematics) from the final year of the full-time course. In the third year the remaining Final Year subjects are taken together with the project. Detailed timetables are available.

Entry Requirements:
Either a Pass in the Foundation Course (B740) or a Distinction in the DIT/NCEA Technician Diploma.

Duration:
Three years - late afternoon and evening three or four days per week (depending on the chosen discipline).

How to Apply/Enrol:
Postal application taken on enclosed form from those wishing to undertake study for a degree in one of the four Engineering Disciplines.

Course Fee:
£650 including DIT examination fee.

Examinations:
Examinations are held at the end of each academic year in the subjects taken during that year. The examination papers are the same as for the full-time degree students. Repeat examinations are held in early September.

Award:
DIT Diploma in Engineering (Dublin Institute of Technology/ B.Sc (Eng) (University of Dublin).

Career Opportunities:
Engineering and Management positions in Manufacturing, Service Industries and Management/Engineering Consultancy.

Further Information:
The Department of Engineering Technology.
CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

Description: To prepare students for a Technician Certificate/Diploma in Civil Engineering and to meet the academic requirements for technician/technician engineer status with the Institution of Engineers of Ireland.

Content:

**Stage 1** - Mathematics, engineering science, mechanics, drawing, complementary studies, building technology and engineering materials, surveying, computing.

**Stage 2** - Mathematics, complementary studies, concrete/geochemistry, construction services and supplies, planning/administration, structural design and detailing, surveying.

**Stage 3** - (Fifth and sixth years) Diploma stage. This stage offers options in municipal, structural, and environmental engineering.

Entry Requirements: Irish Leaving Certificate or equivalent with passes in Mathematics, a science subject (preferably Physics), English and two other subjects. A Senior Trade Certificate with suitable endorsement subjects may be accepted. Students are expected to be already suitably employed in Civil Engineering.

Duration: 4 years to Certificate stage, 6 years to Diploma stage.

How to Apply/Enrol: Postal application taken on enclosed form from qualified applicants.

Course Fee: £330 per year.

Examinations: Examinations in each subject at the end of each session/year.

Award: Technician Certificate/Diploma in Civil Engineering. (Dublin Institute of Technology).

Career Opportunities: Employment as a technician in Municipal, Structural or Environmental Engineering.

Further Information: The Department of Engineering Technology.

BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

Description: To prepare students for the above Certificate and Diploma awards.

Content:

**Stage 1** - Mathematics, mechanics, engineering science, drawing, instrumentation and materials, building construction and services, complementary studies, computing.

**Stage 2** - At this stage, two options are available: (with some common subjects).

- Building services option.
- Refrigeration technology option.

**Stage 3** - Mathematics, management studies, electrotechnology and controls, lighting and acoustics, environmental engineering, air conditioning and refrigeration, heating and combustion, computing, project.

Entry Requirements: Irish Leaving Certificate or equivalent with passes in Mathematics, a science subject (preferably Physics) and two other subjects or a Senior Trade Certificate with suitable endorsement subjects. Students are expected to be already suitably employed in building services engineering before commencing the course.

Duration: 4 years to Certificate stage, 6 years to Diploma stage.

How to Apply/Enrol: Postal application taken on enclosed form.

Course Fee: £330.

Examinations: Examination in each subject at the end of each session.

Award: Technician Certificate/Diploma in Building Services Engineering (DIT).

Career Opportunities: Employment as a technician in the building services or refrigeration industries.

Further Information: The Department of Engineering Technology.
**MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE**

**Description:**
To prepare students for the above awards and for technician or technician engineer status with the Institution of Engineers of Ireland.

**Content:**
- **Stage 1** – Mathematics, engineering science, mechanics, drawing, instrumentation and materials, workshop technology, complementary studies, computing.
- **Stage 2** – At this stage three options are offered, having some common subjects. The options are: Mechanical, Welding, Fluid Power.
- **Stage 3** – At this stage, a Manufacturing or Process Instrumentation option is offered and students are expected to be employed in this field.

**Entry Requirements:**
Irish Leaving Certificate or equivalent with passes in Mathematics, a science subject (preferably Physics), English, and two other subjects, or a Senior Trade Certificate with suitable endorsement subjects. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course.

**Duration:**
4 years to Certificate stage, 6 years to Diploma stage.

**How to Apply/Enrol:**
Postal application taken on enclosed form.

**Course Fee:**
£330.

**Examinations:**
Examinations in each subject at the end of each session.

**Award:**
Technician Certificate/Diploma in Mechanical Engineering (DIT).

**Career Opportunities:**
Employment as a technician in Mechanical Engineering, with specialisation (at Diploma stage) in either manufacturing or process instrumentation.

**Further Information:**
The Department of Engineering Technology.

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**CERTIFIED MANUFACTURING TECHNOLOGIST**

**Description:**
To assist students prepare for the Manufacturing Engineering Part 1 examination of the Society of Manufacturing Engineers. This leads to the award of Certified Manufacturing Technologist (C. Mfg.T).

**Content:**
A review of manufacturing engineering fundamentals including applied mechanics, materials, quality control, management, computer applications, automation, manufacturing processes, engineering design.

**Entry Requirements:**
Two or more years manufacturing engineering experience and/or third level engineering education.

**Duration:**
Two evenings per week for one year.

**How to Apply/Enrol:**
Postal application on enclosed form from technicians, supervisors, production managers and engineers engaged in manufacturing.

**Course Fee:**
£330.

**Examinations:**
Manufacturing Engineering PT. 1 Examination of the Society of Manufacturing Engineers.

**Award:**
Certified Manufacturing Technologist Award (Society of Manufacturing Engineers).

**Career Opportunities:**
For those already engaged in manufacturing industry, this course is designed to improve the promotional potential of candidates.

**Further Information:**
The Department of Engineering Technology.
**B758**

**REFRIGERATION ENGINEERING TECHNICIAN**

**Description:**
To prepare students for the City and Guilds of London Institute examinations in the Science and Technology of Refrigeration (2570).

**Content:**
1st year - Engineering science and mathematics, refrigeration processes and plant, safety, materials and drawing.
2nd year - Refrigeration technology, refrigeration plant, refrigeration and A.C. applications.

**Entry Requirements:**
Irish Leaving Certificate in 5 subjects, or equivalent.

**Duration:**
Three evenings per week for two years.

**How to Apply/Enrol:**
Postal application taken on enclosed form from technicians employed in the refrigeration engineering industry.

**Course Fee:**
£330.

**Examinations:**
City and Guilds of London Institute examination (2570).

**Award:**
City and Guilds of London Institute (2570).

**Career Opportunities:**
This course is designed for technicians already employed in the refrigeration engineering industry, to broaden their employment potential and scope.

**Further Information:**
The Department of Engineering Technology.

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**B770**

**INTRODUCTORY PROGRAMMING**

This course covers the fundamental principles of programming and the basic program constructs. Computer systems in general are covered and the students are introduced to computer application packages, in addition to the BASIC and COBOL languages.

**Content:**
- Databases.
- Computer systems.
- Spreadsheets.
- Word-processing.
- BASIC language.
- COBOL language.

**Entry Requirements:**
Irish Leaving Certificate or equivalent.

**Duration:**
This is a one year evening course. Students are required to attend two evenings per week.

**Timetable:**
- Wednesday 6.30-9.30pm Room 380
- Monday 6.30-9.30pm Room 380.

**How to Apply/Enrol:**
Postal application on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1 and should be received before 31st August 1996.

**Course Fee:**
£330.

**Examinations:**
Students are prepared for City and Guilds of London Institute examinations from the 726 Information Technology Program.
- Introduction to computers 1
- BASIC programming 1
- COBOL programming 1.

**Award:**
City and Guilds of London Certificate in Programming (Level 1).

**Further Information:**
Department of Computing.
B771

Computer Programming

Description:
This course provides an extensive coverage of programming, with emphasis on the COBOL language. The principles of structured design and data processing are covered. The course is at a high level and forms the basis for a student wishing to pursue a career in computer programming.

Content:
Introductory computing
Structured design
COBOL language
C language
File/Data processing.

Entry Requirements:
(a) Irish Leaving Certificate or equivalent.
(b) B770 Introductory Programming or relevant experience.

Duration:
This is a one year evening course.
Students are required to attend two evenings per week.

Timetable:
Tuesday 6.30-9.30 p.m. Room 390
Thursday 6.30-9.30 p.m. Room 390.

How to Apply/
Enrol:
Postal application on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1.

Course Fee:
£330.

Examinations:
Students are prepared for the City and Guilds of London Institute examinations from the 726 Information Technology Program.
Introduction to computers 1
Program design techniques 2
COBOL programming 2
C programming 2

Award:
City and Guilds Diploma in Programming (level 2).

Further Information:
Department of Computing.

B772

Advanced Programming

Description:
This is an advanced applications programming course enabling the student to design and develop commercial systems using advanced programming and design techniques. The course prepares students for work as junior programmers.

Content:
Program design
Structured programming
Problem solving
Design and specification tools
Fourth generation languages
Databases
Program documentation.

Entry Requirements:
(a) Irish Leaving Certificate or equivalent.
(b) City and Guilds preliminary certificate in Applications Programming or equivalent (B771).

Duration:
This is a one year evening course.
Students are required to attend on 2 evenings per week.

Timetable:
Monday 6.30-9.30pm Room 134
Tuesday 6.30-9.30pm Room 380.

How to Apply/
Enrol:
Postal applications on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1 and should be received before 31st August 1996.

Course Fee:
£330.

Examinations:
Students are prepared for the City and Guilds of London Institute Examinations 425 ‘Applications Programming Certificate’.

Award:
City and Guilds Certificate in Advanced Programming.

Career Opportunities:
This qualification is widely accepted for appointment as a commercial programmer.

Further Information:
Department of Computing.
**B781**

**Description:**
This course gives a broad knowledge of the fundamentals of computer aided design using Autocad, and allows the successful student to work in a CAD oriented design environment. This course is widely accepted in industry as a primary qualification in the use of Autocad.

**Content:**
- System requirements and configuration.
- Drawing setup
- Drawing aids
- Operational efficiency
- Drawing editing
- Dimensioning and cross hatching
- Drawing display and plotting.

**Entrance Requirements:**
- (a) Irish Leaving Certificate or equivalent.
- (b) Employer's reference.

**Duration:**
This is a one year evening course. Students are required to attend one evening per week.

**Timetable:**
- Monday 6.30-9.30pm Room 390
- Tuesday 6.30-9.30pm Room 390

**How to Apply/Enrol:**
Postal applications on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1.
and should be received before 31st August 1996.

**Course Fee:** £330.

**Examinations:**
Students are prepared for the City and Guilds of London Institute examination 4351-01 Computer Aided Design and Draughting using Autocad.

**Award:**
Successful candidates of this course will receive a City and Guilds Certificate. Successful candidates of this course and one of B791 and B792 will receive a City and Guilds Diploma in Computer Applications (level 2).

**Further Information:**
Department of Computing.

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**B782**

**Description:**
The successful student of this course will learn to use three dimensional CAD software. The student will learn the theory and application of three dimensional modelling.

**Content:**
- Menu customisation
- LISP programming
- Three dimensional draughting
- AutoCAD Release 13
- Autolisp.

**Entry Requirements:**
- (a) Irish Leaving Certificate or equivalent
- (b) Employer's reference
- (c) City and Guilds 4351-01 introductory AutoCAD or equivalent.

**Duration:**
This is a one year evening course. Students are required to attend one evening per week.

**Timetable:**
- Thursday 6.30-9.30pm Room 390

**How to Apply/Enrol:**
Postal application on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1.
and should be received before 31st August 1996.

**Course Fee:** £330.

**Examinations:**
Students are prepared for the City and Guilds of London Institute examination 4353 ‘Three Dimensional AutoCAD’ and including Autolisp programming.

**Award:**
Successful candidates of this course will receive a City and Guilds Certificate. Successful candidates of this course and one of B791 and B792 courses will receive a City and Guilds Diploma in Computer Applications (Level 2).

**Further Information:**
Department of Computing.
**AUTOCAD – CUSTOMISATION**

**Description:** The successful student of this course will be able to set up and customise AutoCAD and ancillary equipment. AutoCAD is the most commonly used computer aided design package.

**Content:**
- Customising AutoCAD
- Menu customisation
- CAD hardware
- AutoCAD Release 13
- Autolisp.

**Entry Requirements:**
(a) Irish Leaving Certificate or equivalent
(b) Employer’s reference
(c) City and Guilds 4351-01 Introductory AutoCAD or equivalent.

**Duration:** This is a one year evening course. Students are required to attend one evening per week.

**Timetable:**
Wednesday 6.30-9.30 pm Room 390.

**How to Apply/Enrol:** Postal applications on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1 and should be received before 31st August 1996.

**Course Fee:** £330.

**Examinations:** Students are prepared for the City and Guilds of London Institute examination 4354 AutoCAD Customisation.

**Award:** Successful candidates of this course will receive a City and Guilds Certificate.

**Further Information:** Department of Computing.

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**WORD PROCESSING AND DESKTOP PUBLISHING**

**Description:** This course gives the student a thorough introduction to word-processing and desktop publishing using Microsoft Word 6.0 and Microsoft Publisher 2.0. The student will learn to use these packages in a modern technical environment.

**Content:**
- Word processing systems
- Desktop publishing standards
- Documents preparation
- Computer hardware
- Computer software

**Entry Requirements:**
Irish Leaving Certificate or equivalent.

**Duration:** This is a one year evening course. Students are required to attend one evening per week.

**Timetable:**
Wednesday 6.30-9.30 pm Room 380.

**How to Apply/Enrol:** Postal application on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1 and should be received before 31st August 1996.

**Course Fee:** £230.

**Examinations:** Students are prepared for the City and Guilds of London Institute examinations from the 726 Information Technology Program:
- 7261-420 Word Processing 2
- 7261-427 Desktop Publishing 2

**Award:** Successful students will receive a City and Guilds of London Certificate. Successful students of this course and one of courses B781, B782 or B792 will receive a City and Guilds of London Diploma in Computer Applications (Level 2).

**Further Information:** Department of Computing.
SPREADSHEETS AND DATABASES

Description:
This course gives the student a thorough introduction to spreadsheets and databases, using Microsoft Excel 5.0 and Microsoft Access 2.0. The student will learn to use these packages in a modern technical environment.

Content:
- Database Technology
- Spreadsheets
- Data management
- Computer hardware
- Computer software.

Entry Requirements:
Irish Leaving Certificate or equivalent.

Duration:
This is a one year evening course. Students are required to attend one evening per week.

Timetable:
Monday 6.30-9.30 pm Room 380.

How to Apply/Enrol:
Postal application on the enclosed form may be sent to:
Registration Section, DIT Bolton St., Dublin 1
and should be received before 31st August 1996.

Course Fee:
£230.

Examinations:
Students are prepared for the City and Guilds of London Institute examinations from the 726 Information Technology Program:
- 7261-421 Databases 2
- 7261-422 Spreadsheets 2.

Award:
Successful students of this course will receive a City and Guilds Certificate. Successful candidates of this course and one of courses B781, B782 or B791 will receive a City and Guilds Diploma in Computer Applications (Level 2).

Further Information:
Department of Computing.

DECORATIVE PLASTER WORK

Description:
To provide the participants with the necessary knowledge and skills to produce and fix decorative plasterwork to various dimensions and designs.

Content:
Squeeze making, profile preparation and production, running moulds, casting centre pieces, casting and fixing cornices, rubber mould production, insitu cornices, repairs to existing plasterwork.

Entry Requirements:
Knowledge of plastering and construction

Duration:
Thirty weeks. One evening (three hours) per week.

How to Apply/Enrol:
People interested in plasterwork should contact: Mr. Joseph Lawlor, (Assistant Department Head in Charge).

Course Fee:
£330.

Career Opportunities:
Advancement in the plasterwork industry.

Further Information:
Department of Building Trades “A”.

VISUAL DESIGN IN BUILDING WORK

Description:
This course is designed to give craft persons an opportunity to study colour, texture, pattern and broken colour work in building.

Content:
The effects of colour, light, pattern and texture on architectural form and character.

Entry Requirements:
Senior Trade Certificate of the Department of Education in an appropriate trade or an equivalent qualification.

Duration:
Thirty weeks. Two evenings (three hours) per week.

How to Apply/Enrol:
People interested in furthering their knowledge of decor should contact: Mr. Joseph Lawlor, (Assistant Department Head in Charge).

Course Fee:
£330.

Examinations:
City and Guilds of London Institute 6000-1-09 and 6000-1-15.

City and Guilds of London Institute Certificate.

Career Opportunities:
Advancement in decoration trade.

Further Information:
Department of Building Trades “A”.

DEBRIT
**SIGNWORK – ADVANCED (PARTS 1 AND 2)**

This course is designed to give painting and decorating craft persons and persons involved in the sign industry opportunities to improve their skills and knowledge in the preparation of sign work.

**Content:**
Design, shape and form in sign work. Production of signs, glass guilding and etching, ornamental guilding, silk screening.

**Entry Requirements:**
Employment in the painting/decorating and/or sign industry.

**Duration:**
Part 1 - thirty weeks (five hours per week over two evenings).
Part 2 - thirty weeks (five hours per week over two evenings).

**How to Apply/Enrol:**
People interested in signwork should contact: Mr. Joseph Lawlor (Assistant Department Head in Charge).

**Course Fee:**
£330.

**Career Opportunities:**
Advancement in Signwork Industry.

**Award:**
City and Guilds Craft and Advanced Craft Certificate.

**Department “A” Building A.**

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**BUILDINGS MAINTENANCE MANAGEMENT (MODULAR)**

The aims of this course are to prepare students for membership of the IMBM and to equip him/her with the additional skills for employment and/or career advancement.

**Content:**

- (a) Corrective preventative maintenance.
- (b) Health, safety, and welfare at work.
- (c) Preparation of estimates.
- (d) Law of contract.
- (e) Communications techniques.

**Entry Requirements:**
(a) Employment in maintenance/construction industry and
(b) Acceptable industrial experience and
(c) Interview.

**Duration:**
Average duration of each module is 36 hours.

**How to Apply/Enrol:**
Students will be required to enrol in person.

**Course Fee:**
£140 per module.

**Examinations:**
Two IMBM composite written papers (optional). These will take place in May or June.

**Award:**
Certificate in Buildings Maintenance Management Institute of Maintenance and Building Management (IMBM). Progression within the maintenance management industry.

**Building Department A.**
**B113 ADVANCED CARPENTRY AND JOINERY**

**Description:**
This course prepares senior apprentices and craft persons for the Department of Education Senior Trade Certificate Examination and Advanced City and Guilds Award.

**Content:**
Carpentry and Joinery Theory and Practice.

**Entry Requirements:**
Junior Trade Certificate (Department of Education).

**Duration:**
One year, two evenings per week.
Monday, Wednesday 19.00-22.00 hrs.

**How to Apply/Enrol:**
Call in person and complete application form.
Payment by Bank Giro. Suitable for carpenters and joiners.

**Course Fee:**
£330.

**Examinations:**
Written and practical.
Certificate in each case – Department of Education, City and Guilds of London Institute.

**Award:**
Progression to supervisory position.

**Career Opportunities:**
Suitable for those interested in woodturning, joinery and cabinetworking.

**Further Information:**
Building Department ‘B’.

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**B114 WOODCUTTING MACHINING**

**Description:**
This course is designed to give students an appreciation and understanding of wood cutting machines to the standard of Junior Trade, Department of Education.

**Content:**
Woodcutting Machining Theory and Practice.

**Entry Requirements:**
Employment in joinery works.

**Duration:**
One year, two evenings per week.
Monday, Wednesday 19.00-22.00 hrs.

**How to Apply/Enrol:**
Call in person and complete application form. Payment by Bank Giro.

**Course Fee:**
£330.

**Examinations:**
One written and one practical examination.
Certificate from Department of Education.

**Award:**
Progression to supervisory position.

**Career Opportunities:**
Suitable for those employed in the wood trades.

**Further Information:**
Building Department ‘B’.

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**B117 WOODTURNING**

**Description:**
To give students and craft persons hands on experience on the use of the lathe.

**Content:**
General woodturning operations.

**Entry Requirements:**
None.

**Duration:**
Ten weeks, three hours per week – Monday 19.00-22.00 hrs

**How to Apply/Enrol:**
Call in person and complete application form.

**Course Fee:**
£100.

**Examinations:**
None.

**Career Opportunities:**
Upgrading of skills.

**Further Information:**
Building Department ‘B’.

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**B118 TIMBER TECHNOLOGY**

**Description:**
The aim of the Institute of Wood Science is to advance and encourage the scientific, technical, practical and general knowledge of timber and wood materials.

**Content:**
Module 1. Wood as a material
Module 2. Timber trading
Module 3. Drying and strength
Module 4. Conversion and preservation
Module 5. Panel products and utilisation

**Entry Requirements:**
Junior Trade Certificate (Department of Education).

**Duration:**
One year, two evenings per week.
Tuesday, Thursday 19.00-22.00 hrs.

**How to Apply/Enrol:**
Call in person and complete application form.

**Course Fee:**
£330 plus Institute fee.

**Examinations:**
One written and assessment.

**Award:**
Certificate from I.O.W.S.

**Career Opportunities:**
Advancement in the timber and related industries.

**Further Information:**
Building Trades ‘B’.
BUILDING TECHNOLOGY

**Description:**
To prepare students for the Department of Education technological examinations.

**Content:**
- Year 1: Construction, maths, geometry.
- Year 2: Construction, builders quantities, plane and solid geometry.
- Year 3: Construction, builders quantities, plane and solid geometry.

**Entry Requirements:**
Employment in the building industry.

**Duration:**
Three years, three evenings per week – Monday, Tuesday, Wednesday 19.00-22.00 hrs.

**How to Apply/Enrol:**
Call in person and complete application form. Payment by Bank Giro. Suitable for those seeking to gain an insight into construction studies.

**Course Fee:**
£330.

**Examinations:**
- Year 1: Two written examinations.

**Award:**
Certificate from Department of Education.

**Career Opportunities:**
Progress to management in industry.

**Further Information:**
Building Department ‘B’.

CRAFT BASED TECHNICIAN COURSE IN BUILDING

**Description:**
This course of studies has been designed to enable senior apprentices and craft persons to qualify as craft technicians capable of filling supervisory positions in the building industry.

**Content:**
- Year 1: Construction, site management, maths, building science.
- Year 2: Construction, land surveying, quantities, materials.
- Year 3: Construction, land surveying, quantities, management.

**Entry Requirements:**
Senior Trade Certificate or equivalent.

**Duration:**
Three years, one day and one evening per week.

**How to Apply/Enrol:**
Call in person and complete application form. Suitable for those who have completed an apprenticeship or mature students who wish to gain management positions.

**Course Fee:**
£330 per year.

**Examinations:**
- Year 1: Four written examinations.
- Year 2: Six written examinations.
- Year 3: Five written examinations plus project.

**Award:**
DIT Certificate.

**Career Opportunities:**
Progression to management.

**Further Information:**
Building Department ‘B’.

MMA AND OXY-ACETYLENE COURSE – WELDING

**Description:**
To enable students to achieve EN287 standard on the MMA and Oxy-acetylene Welding course.

**Content:**
- Introduction, safety with regard to dress/behaviour in the workshop and on site, welding joints and positions, welding terminology, welding equipment and accessories, practical welding of the standard joints with the manual metal arc and oxy-acetylene processes. Visual and destructive testing relevant to the standards required.
- Employment in an engineering or allied trade.

**Entry Requirements:**
Senior Trade Certificate or equivalent.

**Duration:**
Twenty weeks – one evening per week (19.00-22.00 hrs).

**How to Apply/Enrol:**
Enrolment/interview in mid-September each year. Suitable for those interested in welding.

**Course Fee:**
£230.

**Examinations:**
Practical tests.

**Award:**
Welder approval certificate to EN287 (EN – European Norm) Forbairt.

**Career Opportunities:**
Advancement within the engineering industry.

**Further Information:**
Metal Fabrication and Plumbing Department.
B122  GAS SHIELDED ARC WELDING

Description: To enable students to achieve EN287 standard or ASME IX standard on mild steel, stainless steel or aluminium using the MIG/MAG or TIG welding processes.

Content: Introduction, safety with regard to dress/behaviour in the workshop and on site, welding joints and positions, welding terminology, welding equipment and accessories, practical welding of the standard joints on mild steel, stainless steel, and aluminium using the MIG/MAG and TIG processes. Visual and destructive testing relevant to the standard required.

Entry Requirements: Entry Requirements: Craftspersons and senior apprentices employed in an engineering or allied trade preferably with some welding experience.

Duration: Twenty weeks - one evening per week (19.00-22.00 hrs).

How to Apply/ Enrol: How to Apply/ Enrol: Enrolment/interview in mid-September each year. Suitable for those seeking to gain advanced welding qualifications on particular materials.

Course Fee: £230.

Examinations: Examinations: Practical tests.

Award: Award: Welder Approval Certificate to EN287 or ASME IX (European Norm - EN) Forbairt.

Career Opportunities: Career Opportunities: Advancement within the engineering industry.

Further Information: Further Information: Metal Fabrication and Plumbing Department.

B123  MMA ADVANCED PLATE AND PIPE WELDING

Description: To enable students to achieve EN287 and ASME IX standard on mild steel plate and pipe sections using the manual arc and TIG welding processes.

Content: Introduction, safety with regard to dress/behaviour in the workshop and on site, welding joints and positions, welding terminology, welding equipment and accessories, practical welding of the standard joints on mild steel plate and pipe sections using a combination of TIG and MMA welding processes. Visual and destructive testing relevant to the standard required.

Entry Requirements: Entry Requirements: Crafts persons and senior apprentices employed in an engineering or allied trade preferably with some welding experience.

Duration: Duration: Twenty weeks - one evening per week (19.00-22.00 hrs).

How to Apply/ Enrol: How to Apply/ Enrol: Enrolment/interview in mid-September each year. Suitable for those seeking to gain advanced welding qualifications on either plate or pipe sections.

Course Fee: Course Fee: £230.

Examinations: Examinations: Practical tests.

Award: Award: Welder Approval Certificate to EN287 or ASME IX (European Norm - EN) Forbairt.

Career Opportunities: Career Opportunities: Advancement within the engineering industry.

Further Information: Further Information: Metal Fabrication and Plumbing Department.
**PIPE FABRICATION**

**Description:** To enable students to read, interpret, draw and fabricate pipe line assemblies and intersections.

**Content:** Drawing, parallel line development, workshop safety, oxy-fuel gas cutting, drilling, forming and welding.

**Entry Requirements:** Craftspersons or senior apprentices employed in an engineering or allied trade.

**Duration:** Twenty weeks – one evening per week (19.00-22.00 hrs).

**How to Apply/Enrol:** Enrolment/interview in mid-September each year. Suitable for those seeking to gain more knowledge and experience relevant to pipe fabrication.

**Course Fee:** £230.

**Examinations:** Drawing paper and practical.

**Award:** DIT Certificate.

**Career Opportunities:** Advancement in the fabrication industry.

**Further Information:** Metal Fabrication and Plumbing Department.

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**LIGHT GAUGE FABRICATION**

**Description:** To gain an understanding and appreciation of the methods of working and joining metals such as copper, low-carbon steel, aluminium and brass.

**Content:** Introduction, safety in the workshop, repousse work, hollowing, raising, metal shrinking/stretching, decorative and double curvature work, moulding, mechanical and thermal joining processing.

**Entry Requirements:** Craftspersons and senior apprentices employed in an engineering or allied trade.

**Duration:** Twenty weeks – one evening per week (19.00-22.00 hrs).

**How to Apply/Enrol:** Enrolment/interview in mid-September each year. Suitable for those seeking to gain more knowledge and experience relevant to light gauge fabrication.

**Course Fee:** £230.

**Examinations:** Practical.

**Award:** DIT Certificate.

**Career Opportunities:** Advancement in the engineering industry.

**Further Information:** Metal Fabrication and Plumbing Department.

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**WELDING REPAIR AND MAINTENANCE**

**Description:** To enable students to repair and maintain components on various classes of materials.

**Content:** Introduction, safety with regard to dress/behaviour in the workshop and on site, welding and cutting processes, soldering and brazing processes, metal powder spraying, materials, methods of joining dissimilar materials, welding terminology.

**Entry Requirements:** Craftspersons and senior apprentices employed in an engineering or allied trade.

**Duration:** Twenty weeks – one evening per week (19.00-22.00 hrs).

**How to Apply/Enrol:** Enrolment/interview in mid-September each year. Suitable for those seeking to gain more knowledge and experience relevant to welding repair and maintenance.

**Course Fee:** £230.

**Examinations:** Written and practical plus in-course assessments.

**Award:** DIT Certificate.

**Career Opportunities:** Advancement in the engineering industry.

**Further Information:** Metal Fabrication and Plumbing Department.

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**ART METAL CASTING**

**Description:** To introduce artist and sculptors involved in making statuary and objets d'art to good design practice in casting brass, bronze and aluminium.

**Content:** Casting of brass, bronze and aluminium.

**Entry Requirements:** Those involved in artistic work.

**Duration:** Eight weeks – one evening per week.

**How to Apply/Enrol:** Call in person and complete the application form. Suitable for those seeking to gain knowledge of casting techniques.

**Course Fee:** £100.

**Award:** DIT Certificate.

**Career Opportunities:** Advancement in the engineering industry.

**Further Information:** Metal Fabrication and Plumbing Department.
**B131**

**PLUMBING (ADVANCED)**

**Description:** To give senior apprentices and craftspersons the opportunity to prepare for the senior trade examinations.

**Content:**
- Heating theory
- Sanitation and drainage
- Drawing
- Trade practical.

**Entry Requirements:**
- Junior trade examination and three years experience.

**Duration:**
- One year - 2 evenings per week.

**How to Apply/Enrol:**
- Call in person and complete the application form. Suitable for those who wish to sit for the senior trade examinations.

**Course Fee:** £330.

**Examinations:**
- One written and one practical.

**Award:**
- Senior Certificate in Plumbing (Department of Education).

**Career Opportunities:**
- Progress to supervisory positions.

**Further Information:**
- Metal Fabrication and Plumbing Department.

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**B132**

**CRAFT TECHNICIANS CERTIFICATE IN PLUMBING**

**Description:** To prepare Craftspersons as Technicians.

**Content:**
- **1st Year:** Maths and science, drawing and design, sanitation and drainage.
- **2nd Year:** Heating technology I, fire prevention systems, hot and cold water.
- **3rd Year:** Heating technology II, management and quantities.

**Entry Requirements:**
- Department of Education senior trade examination or equivalent.

**Duration:**
- Three years, three evenings per week.

**How to Apply/Enrol:**
- Call in person and complete the application form. Suitable for those who wish to become technicians or managers.

**Course Fee:** £330.

**Examinations:**
- Four written papers each year and projects.

**Award:**
- Craft Technicians Certificate (Dublin Institute of Technology).

**Career Opportunities:**
- Progress to management within the industry.

**Further Information:**
- Metal Fabrication and Plumbing Department.

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**B133**

**TENDERING AND ESTIMATING PRACTICE**

**Description:** To give students an appreciation of the techniques used in tendering and estimating.

**Content:**
- Tendering procedures, tender documents, contracts, take-off practice, pricing folder, labour rates, bill of quantities, presentation of tender and estimating project.

**Entry Requirements:**
- Department of Education senior trade examination in plumbing.

**Duration:**
- One year, one evening per week.

**How to Apply/Enrol:**
- Call in person and complete the application form. Suitable for those seeking to gain an insight into tender practice.

**Course Fee:** £230.

**Examinations:**
- None.

**Career Opportunities:**
- Progress to management within the industry.

**Further Information:**
- Metal Fabrication and Plumbing Department.

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**B135**

**DOMESTIC HEATING ENGINEERS**

**Description:** To give persons employed in the industry an understanding of the principles and techniques involved in heating engineering.

The course is run in conjunction with the Institute of Domestic Heating Engineers.

**1st Year:** Heating technology, gas technology.

**2nd Year:** Management techniques, estimating and quantities.

**Entry Requirements:**
- Department of Education senior examination or equivalent.

**Duration:**
- Two years.

**How to Apply/Enrol:**
- Call in person and complete the application form. Suitable for those seeking to gain an insight into heating technology.

**Course Fee:** £330.

**Examinations:**
- First year - two written papers, second year - three written papers of the Institute of Domestic Heating Engineers.

**Career Opportunities:**
- Progress to management within the industry.

**Further Information:**
- Metal Fabrication and Plumbing Department.
B136

ADVANCED LEVEL REFRIGERATION AND AIR CONDITIONING

Description: To give students an opportunity to appreciate the techniques involved in refrigeration and air conditioning.

Content: Commercial refrigeration, air conditioning techniques, electrical practice, maths and science.

Entry Requirements: Department of Education senior trade examination.

Duration: One year, two evenings per week.

How to Apply/Enrol: Call in person and complete the application form. Suitable for those who wish to sit for the advanced level refrigeration and air conditioning examination.

Course Fee: £330.

Examinations: Four written papers.

Award: Advanced Level Certificate – City and Guilds of London Institute.

Career Opportunities: Progress to supervisor or technician level.

Further Information: Metal Fabrication and Plumbing Department.

B137

EFFICIENT ENERGY PRACTICE

Description: To give students an opportunity to appreciate efficient energy practice techniques.

Content: Automatic control systems, energy conservation systems, building management systems.

Entry Requirements: Leaving Certificate or Senior Trade Department of Education Certificate.

Duration: One year, one evening per week.

How to Apply/Enrol: Call in person and complete the application form. Suitable for those seeking to gain an insight into energy conservation.

Course Fee: £230.

Examinations: None.

Career Opportunities: Progress to technician level.

Further Information: Metal Fabrication and Plumbing Department.
CERTIFICATE IN QUALITY ASSURANCE

(i) To meet the needs of personnel charged with the responsibility of quality control/assurance.
(ii) To raise the awareness of the importance of all aspects of quality in both the manufacturing and service industry.

Part I
The function of quality assurance.
Setting and using purchase and manufacturing specifications.
Inspection and testing.
Sampling inspection – 1.
Presentation and interpreting frequency distribution and quality control charts.
Operating quality control systems.

Part II
Costing.
Designing quality control systems.
Sampling inspections – 2.
Analysing frequency distribution.
Managing quality assurance systems.
Using computers for the control of quality.
Evaluating and Predicting Reliability.
Designing and using quality control charts.

Senior Trade Certificate with two endorsements (Department of Education) or technician certificate. Mature candidates with suitable relevant experience may also apply.

One year, one evening per week (19.00-22.00 hrs) for each part.
Complete application form and attend for interview. Suitable for craftspersons, technicians and management personnel.

£230.

One written paper for each part.
Certificate in Quality Assurance
City and Guilds of London Institute.

Progress within Quality Assurance field.

Department of Engineering Trades.
CERTIFICATE/DIPLOMA IN QUALITY MANAGEMENT

Description:

i) To give students an understanding of general management principles and of how quality is managed.

ii) To explain the methodology of quality improvement in particular the various tools and techniques for analysis.

iii) To carry out a project on a relevant aspect of quality assurance.

iv) To provide a career path for students who have successfully completed the certificate course in quality management and to enhance their prospects of middle management appointments.

Content:

Certificate Stage
Basic concepts, definitions.
Management.
Problem solving and quality improvement.
Service/product quality.
Financial aspects.
Quality development.
Project.

Diploma Stage
Standards.
Quality audits.
Statistical process control (SPC).
Communications.
Team building.
Empowerment theory.
Problem solving.
Management and management functions.
Quality information systems.
Quality Assurance Legislation.

Entry Requirements:
Success in Certificate in Quality Assurance (City and Guilds of London Institute Part 2) or mature students with relevant experience.

Duration:
One year, one evening per week (19.00-22.00 hrs) per stage.

How to Apply/Enrol:
Complete application form and attend for interview. Suitable for managers and supervisors working within quality control/assurance departments.

Course Fee:
£230 per stage.

Examinations:
One written paper and a successfully completed project per stage.

Award:

Career Opportunities:
Management and supervisory appointments in QA/QC departments in industrial/commercial organisations.

Further Information:
Department of Engineering Trades.

GENERAL MAINTENANCE TECHNOLOGY

This course is designed to give students competence in general maintenance technology and practice.

Engineering materials, assembly and dismantling, joining by screwthread, adhesives, pins and keys, cutting screwthreads by taps and dies, electrotechnology, fundamental measurement.

Entry Requirements:
(a) Junior trades certificate.
(b) Acceptable industrial experience.

Duration:
One year, one evening per week (Monday) 19.00-21.00 hrs.

How to Apply/Enrol:
Call in person and complete application form. Suitable for those seeking to gain insight into the technology involved in maintenance.

Course Fee:
£230.

Examinations:
One multiple choice paper.

Award:
Certificate in Engineering Systems Maintenance (City and Guilds of London Institute).

Career Opportunities:
Progress in industrial maintenance.

Further Information:
Department of Engineering Trades.
MAINTENANCE ORGANISATION

Candidates who successfully complete each element will be issued with a record of achievement and will qualify for a Part II certificate.

Planned maintenance schedules, systematic fault finding, purpose of maintenance management, main elements of planned maintenance, preventative maintenance programmes, condition monitoring and corrective maintenance, cost effectiveness of a computer based system, logical fault finding and rectification.

Irish Leaving Certificate or completed Senior Trades Certificate or acceptable industrial experience.

Entry Requirements:

One year - one and a half hours per week.

Complete application form. Suitable for those who wish to acquire a competence in maintenance subjects.

£230.

Written paper.

Certificate of Credit by City and Guilds of London Institute.

Career Opportunities:

Further Information:

Department of Engineering Trades.

PNEUMATICS

Students will be trained to interpret technical drawings or data in order to determine the type/operation of pneumatic circuits and to maintain/repair these circuits.

Purpose of pneumatic actuation
Comparison of pneumatic, hydraulic and electric systems
Properties and behaviour of compressed air
Factory air service systems

Pneumatic component and circuit description and use.
Acceptable industrial experience.

Entry Requirements:

One year, one evening per week. Wednesday 19.00-20.30 hrs.

Call in person and complete application form. Suitable for apprentices, craftsmen, craft based technicians.

£230.

One written paper and a practical qualifying task.

Record of Achievement in part fulfilment of requirements for City and Guilds of London Institute (214 Part 2)

Career Opportunities:

Further Information:

Department of Engineering Trades.
**HYDRAULICS**

Description: Students will be trained to interpret technical drawings or data in order to determine the type/operation of hydraulic circuits and to maintain/repair these circuits.

Content:
- Purpose of hydraulic actuation
- Compare hydraulic, pneumatic and electric systems
- Properties and behaviour of hydraulic fluids
- Concepts/principles of hydraulic systems
- Description/use of hydraulic components/systems
- Fault finding.
- Acceptable industrial experience.

Entry Requirements: One year, one evening per week - Wednesday 20.30-22.00 hrs.

How to Apply/Enrol: Call in person and complete application form. Suitable for apprentices, craftsmen, craft based technicians.

Course Fee: £230.

Examinations: One written paper and a practical qualifying task.

Award: Record of Achievement in part fulfilment of requirements for City and Guilds of London Institute (214 Part 2).

Career Opportunities: Progression in general maintenance.

Further Information: Department of Engineering Trades.

**MECHANICAL POWER TRANSMISSION**

Description: To give students a generalised knowledge of Power Transmission and its scientific background.

Content:

Entry Requirements: Irish Leaving Certificate or Senior Trades Certificate and/or acceptable industrial experience.

Duration: One year, one evening per week (Tuesday 19.00-20.30 hrs).

How to Apply/Enrol: Complete application form. Suitable for those who wish to acquire a competence in maintenance subjects.

Course Fee: £230.

Examinations: Written paper and practical qualifying tasks.

Award: Certificate of Credit towards full City and Guilds of London Institute Certificate (Part II.214).

Career Opportunities: Progression in the field of maintenance, supervision or planning materials.

Further Information: Department of Engineering Trades.
### MACHINE TOOL SYSTEMS

**Description:**
To attain City and Guilds of London Institute Part III – engineering systems maintenance and generalised knowledge of machine tool systems.

Mounting and aligning machine tool systems and components, power transmission in common use, hydraulic and pneumatic systems, principles of CNC machine tools, programming maintenance work, coolants and lubricants, procedures when commissioning/maintaining machine tools.

**Ireland Leaving Certificate or Senior Trades Certificate or C & G Part II.214 and/or acceptable industrial experience.**

**Entry Requirements:**
One year, one evening per week (Monday 19.00-20.30 hrs).

**Duration:**
Complete application form. Suitable for those who wish to acquire a competence in maintenance subjects and have completed Part II engineering maintenance systems.

£230.

**Course Fee:**
Written paper and practical qualifying tasks.

**Examinations:**
City and Guilds of London Institute Part III.

**Award:**
Progression in maintenance, supervision or planning fields.

**Further Information:**
Department of Engineering Trades.

### PLANT INSTALLATION AND COMMISSIONING

**Description:**
To attain generalised knowledge of plant installation and commissioning and to attain City and Guilds of London Institute 214 part III.

Sitting and building plant foundations, anti-vibration mounting and fixing devices, lifting, handling and conveying types of installation equipment and safety requirements, levelling and alignment on bases, general commissioning procedures after installation or maintenance.

Those who have completed engineering system competence (part II.214 City and Guilds of London Institute).

**Entry Requirements:**
One year, one evening per week (Monday 19.00-20.30 hrs).

**Duration:**
Complete application form. Suitable for those who wish to acquire Part III City and Guilds of London Institute engineering systems maintenance.

£230.

**Course Fee:**
Written paper and practical qualifying tasks.

**Examinations:**
City and Guilds of London Institute Part III.

**Award:**
Progression in maintenance, supervision or planning fields.

**Further Information:**
Department of Engineering Trades.
MECHANICAL ENGINEERING CRAFT STUDIES - INSPECTION (METROLOGY)

Description: To meet the needs of people charged with the responsibility of quality control in general and the inspection of precision engineering components in particular.

Content: Quality control, Standards, Dimensional control, Acceptance tests, Inspection of form and position, Surface texture.

Entry Requirements: Senior apprentices, craftsmen, technicians and other engineering personnel of relevant experience may apply.

Duration: One year, one evening per week.

How to Apply: Complete enclosed application form and attend for interview.

Course Fee: £230.

Examinations: One written paper and one course assessment.

Award: City and Guilds of London Institute Certificate.

Career Opportunities: Employment as a technician in Mechanical Engineering areas including Machine Tools, Jig and Tool Design, Production and Design Draughting.

Further Information: Department of Engineering Trades.

MECHANICAL ENGINEERING TECHNICIAN COURSE

Description: To prepare students for the City and Guilds of London Institute examinations for mechanical engineering technicians (2550).

First year: Workshop processes and practice, engineering drawing and materials, engineering science, mathematics, general studies.

Second year: Science and mathematics, drawing and materials, production technology, general studies.

Third year: Subjects leading to Pt. III of the City and Guilds examination, including engineering production and a project. Elementary stage Technological Certificate of the Department of Education in mechanical engineering, or Leaving Certificate, or endorsement in Senior Craft Certificate or equivalent. This course is intended for technicians and draughtsmen engaged in machine tool operation, jig and tool design, engineering production and design draughting.

Duration: 3 years, four evenings per week.

How to Apply: Postal applications taken on enclosed form.

Course Fee: £330.

Examinations: City and Guilds of London Institute examinations at the end of each session.

Award: Parts I, II and III of the City and Guilds of London Institute (2550).

Career Opportunities: Employment as a technician in Mechanical Engineering areas including Machine Tools, Jig and Tool Design, Production and Design Draughting.

Further Information: The Department of Engineering Trades.
NC/CNC MACHINE SETTING AND OPERATION

Description: To give a student the necessary skills to become competent in writing CNC programs and setting machines/tools/parts.

Content: Safety procedures, program preparation and input, work and tool preparation, CNC machines operation.

Entry Requirements: Junior trades certificate or acceptable industrial experience.

Duration: One year, one evening per week – 19.00-22.00 hrs.

How to Apply/Enrol: Call in person and complete application form. Suitable for those seeking to acquire the necessary skills to program and set CNC machines.

Course Fee: £230.

Examinations: One written paper.

Award: City and Guilds of London Institute Certificate in NC/CNC Machine Setting and Operation.

Career Opportunities: Progression to CNC machines from conventional machines.

Further Information: Department of Engineering Trades.

CNC PART PROGRAMMING

Description: To provide competence in CNC manual part programming. Plan production of part by CNC, write and prove part programs, produce components by CNC, document a part program (operator instructions i.e. datum position, tools, workholding, sequence).

Entry Requirements: NC/CNC machine setting and operation (part II.2300 City and Guilds of London Institute) or experience in industry using industrial scale CNC equipment.

Duration: One year, one evening per week – 19.00-22.00 hrs.

How to Apply/Enrol: Call in person and complete an application form. Suitable for those working in industries using CNC equipment, toolmakers/mouldmakers.

Course Fee: £230.

Examinations: Continuous assessment with one written paper.

Award: C&G Certificate in CNC Part Programming (City and Guilds of London Institute).

Career Opportunities: Progression in computer-aided-engineering CAD/CAM fields.

Further Information: Department of Engineering Trades.
**ADVANCED PART PROGRAMMING**

To give a student the necessary skills to program and set a range of machines and the ability to program using a CAD/CAM package.

Plan production of part program, write part programs manually, write part programs using CAD/CAM package, produce a component using a part program, document a part program, computer integrated manufacture.

NC/CNC machine setting and operation or relevant industrial experience.

One year, one evening per week (19.00-22.00 hrs).

Call in person and complete application form. Suitable for those wishing to update their existing CNC skills and learn CAD/CAM.

£230.

One written paper.

One project-part produced by manual program.

One project-program produced by CAD/CAM.

City and Guilds Certificate in Advanced Part Programming (City and Guilds of London Institute).

Progression to manual and CAD/CAM programming.

Department of Engineering Trades.

**PROGRAMMABLE LOGIC CONTROLLERS**

To provide an introduction to the design, structure and operations of PLC's offering the latest information on how controllers work and their applications to industry. Importance is attached to 'hands on experience'.

Plan production of PLC programs, write/prove PLC programs, document and store PLC programs, provide interface facilities between PLC's and IMS's.

Junior trades certificate or acceptable industrial experience.

One year, one evening per week - 19.00-22.00 hrs.

Call in person and complete application form. Suitable for those who want to acquire a sound understanding of PLC's.

£230.

One written paper and observation of performance during a number of assignments.

City and Guilds Certificate in Programmable Logic Controllers (City and Guilds of London Institute).

Progression in manufacturing and service technology.

Department of Engineering Trades.
FLIGHT OPERATIONS OFFICER (DISPATCHER) COURSE

Description: To provide instruction for flight operations officers in all operation aspects related to the preparation for commercial flights and the monitoring of all flights from a safety and efficiency viewpoint.

Content: Flight planning, aircraft loading, flight watch and operational considerations such as weight and runway limitations, weather, ATC procedures. The course follows the guidelines of ICAO standardised course 201.

Entry Requirements: A general knowledge of aviation appropriate to personnel employed in airlines or associated operations.

Duration: One year – two evenings per week (Tuesday and Wednesday 18.30 - 21.30 hrs).

How to Apply/Enrol: Call in person and complete application form.

Course Fee: £330.

Examinations: In-house examinations.

Career Opportunities: Progression in the operations sector of the industry.

Further Information:

PRODUCTION PLANNING COURSE (IATA)

Description: To provide instruction for personnel employed in the planning departments of the aeronautical industry.

Content: Aircraft organisation and practice, aircraft operation and maintenance planning.

Entry Requirements: Applicants should be employed in planning departments of the aeronautical industry or holders of the City and Guilds of London Institute Certificate for Course 258 part II.

Duration: One year, two evenings per week.

How to Apply/Enrol: Call in person and complete an application form.

Course Fee: £330.

Examinations: Written papers in Production Planning.

Award: Production Planning – IATA

Career Opportunities: Progression within the airline industry.

Further Information:

AERONAUTICAL MAINTENANCE ENGINEERS’ LICENCES

'A' LICENCE – B737
'A' LICENCE – B747
'A' LICENCE – B727
'C' LICENCE – P&W J78D
'C' LICENCE – P&W JT9D
'X' LICENCE – INSTRUMENTS
'X' LICENCE – ELECTRICAL
'X' LICENCE – RADIO
'X' LICENCE – RADIO (RADAR ENDORSEMENT)

B737 CFM-56-3 ENGINE
B737-56-3 300 DIFFERENCES COURSE
B737 400/500 DIFFERENCES COURSE
B767-300 AIRFRAME

Description: To provide students with the requirements for type rating in accordance with air navigation personnel licensing order or approvals under JAR 145.

Content: Description and operation, testing/inspection, repair procedures, service bulletins, AD's.

Entry Requirements: Basic aeronautical engineering certificate in appropriate category.

Duration: One year – two evenings per week, except B1521S (B737 CFM-56-3 engine) which is one evening per week.

How to Apply/Enrol: Contact Department below.

Course Fee: £330 per year except B1521S for which the fee is £230.

Examinations: Aeronautical Maintenance Engineers’ Licences.

Award: Licence from the Irish Aviation Authority.

Career Opportunities: Progression in the aviation industry.

Further Information:

Department of Transport Engineering.
B153

**JET ENGINE OVERHAUL PROCEDURES**

**Description:** To provide instruction in jet engine design and overhaul procedures.

**Content:** Jet engine overhaul procedures, the role of management, marketing technology, disassembly to test cell procedures and the complete planning operation.

**Entry Requirements:** Employment in the aeronautical industry.

**Duration:** One year, one evening per week.

**Course Fee:** £230.

**Examinations:** In-house examination.

**Career Opportunities:** Progression within the industry.

**Information:** Department of Transport Engineering.

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B154

**AERONAUTICAL ENGINEERING CRAFT STUDIES**

**Description:** To prepare students for the Basic Aeronautical Engineering Certificate.

**Content:** In-depth study of aircraft and engine structures and systems, maintenance organisations, air law, drawing.

**Entry Requirements:** Not less than two years employment in the aeronautical engineering industry.

**Duration:** One year, one day and one evening per week.

**Course Fee:** £330.

**Examinations:**

**Stage One:** Part 1 examinations in aeronautical engineering.

**Stage Two:** Part 2 examinations in aeronautical engineering craft studies.

**Award:** Aeronautical Engineering Craft Studies (City and Guilds of London Institute).

**Career Opportunities:** Employment in aircraft maintenance or overhaul industry.

**Further Information:** Department of Transport Engineering.

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B155

**BASIC AERONAUTICAL ENGINEERING CERTIFICATES**

**B1551B**
**B1551C**
**B1551D**

**B1551E**
**B1551F**
**B1551G**
**B1551H**
**B1551K**

**AIRFRAMES PRESSURISED (BAEC2)**
**PISTON ENGINES (BAEC3)**
**TURBO-PROP AND TURBO-JET ENGINES (BAEC4)**
**HELICOPTERS (LESS ENGINES) (BAEC5)**
**ELECTRICAL (BAEC6)**
**RADIO (BAEC7)**
**INSTRUMENTS (BAEC8)**
**INSPECTION AND REPAIR OF METAL COMPOSITES AND AIRCRAFT STRUCTURES (BAEC10)**

**Description:** To prepare students for the Basic Aeronautical Engineering Certificate.

**Content:** This course follows the IAA BAEC common syllabus and the applicable BAEC part number syllabus.

**Entry Requirements:** Not less than two years employment in the aeronautical engineering industry.

**Duration:** One year, two evenings per week.

**Course Fee:** £330.

**Examinations:** Basic Aeronautical Engineering Certificate Examinations.

**Award:** Basic Aeronautical Engineering Certificate – Irish Aviation Authority.

**Career Opportunities:** Progression to Type Licence.

**Further Information:** Department of Transport Engineering.
**PRIVATE AIRCRAFT PILOTS LICENCE**

**Description:** To provide instruction for personnel wishing to take the Private Pilots Licence.

**Content:** Meteorology, navigation, air legislation, theory of flight, aircraft limitations and human factors.

**Duration:** One year, one evening per week.

**Course Fee:** £230.

**Examinations:** Private Pilots Licence Theory.

**Award:** Private Pilots Licence with the Irish Aviation Authority.

**Career Opportunities:** Employment in the industry as trainee commercial pilot.

**Further Information:** Department of Transport Engineering.

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**PRIVATE PILOTS LICENCE (INSTRUMENT RATING)**

**Description:** To provide instruction for personnel who already hold a Private Pilots Licence and who wish to take the Private Pilots Licence (Instrument Rating).

**Content:** Meteorology, navigation, air legislation, theory of flight, aircraft performance and limitations and human factors.

**Duration:** One year, one evening per week.

**Course Fee:** £230.

**Examinations:** Private Pilots Licence Theory.

**Award:** Private Pilots Licence with Instrument Rating from the Irish Aviation Authority.

**Career Opportunities:** Employment in the industry as trainee commercial pilots.

**Further Information:** Department of Transport Engineering.

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**MOTOR CYCLE MECHANIC**

**Description:** To prepare students for City and Guilds 389 Craft Certificate. The study of engines, chassis, transmission, brakes of motor cycles.

**Entry Requirements:** Employment as a motor cycle mechanic.

**Duration:** One year, two evenings per week.

**Course Fee:** £330.

**Examinations:** City and Guilds 389 Craft Certificate.

**Award:** 389 Craft Certificate – City and Guilds of London Institute.

**Career Opportunities:** Progression within the industry.

**Further Information:** Department of Transport Engineering.

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**MOTOR VEHICLE PARTS PERSONNEL**

**Description:** To prepare students for the Vehicle Parts Personnel City and Guilds 384 Parts 1 and 2 Certificate Examinations. Motor vehicle knowledge, parts administration, commercial practice, computing.

**Entry Requirements:**
1. Junior Certificate and
2. Employment in the motor industry.

**Duration:**
- Part 1 – two evenings per week.
- Part 2 – two evenings per week.

**Course Fee:** £330.

**Examinations:** Vehicle Parts Personnel 384 Parts 1 and 2 Certificate Examinations.

**Award:** Vehicle Parts Personnel Certificate (City and Guilds of London Institute).

**Career Opportunities:** Progression within the industry.

**Further Information:** Department of Transport Engineering.
MOTOR VEHICLE PARTS PERSONNEL DISTANCE LEARNING PROGRAMME

Description: To prepare students for the Vehicle Parts Personnel City and Guilds 384 Parts 1 and 2 Certificate Examinations.

Content: Parts service administration, stock management and control, commercial practice, parts distribution, legal aspects, customer relations and communications.

Entry Requirements:
1. Junior Certificate and
2. Employment in the motor industry.

Duration: The course comprises a series of units which are studied at home. A short test at the end of each unit must be satisfactorily completed before proceeding to the next unit.

Course Fee: £230.


Award: Vehicle Parts Personnel Certificate (City and Guilds of London Institute).

Career Opportunities: Progression within the industry.

Further Information: Department of Transport Engineering.

MOTOR VEHICLE CRAFT STUDIES DIAGNOSTIC TECHNIQUES

Description: This course is to prepare students for the 381 Part 3 Certificates in Diagnostic Techniques (Engines) and Diagnostic Techniques (Transmission) Examinations.

Content: Study of engines, manual transmissions, automatic transmissions.

Entry Requirements: Department of Education Senior Trade Certificate or equivalent.

Duration: Three ten weeks modules – one evening per week.

Course Fee: £230.

Examinations: Certificate examinations in compressed air brakes, compression ignition engines and fuel injection equipment.

Award: Certificates in Compressed Air Brakes, Compression Ignition Engines and Fuel Injection Equipment – City and Guilds of London Institute (381 Part III).

Career Opportunities: Progression in the industry.

Further Information: Department of Transport Engineering.

MOTOR VEHICLE PARTS PERSONNEL DISTANCE LEARNING PROGRAMME

Description: To prepare students for the Vehicle Parts Personnel City and Guilds 384 Parts 1 and 2 Certificate Examinations.

Content: Parts service administration, stock management and control, commercial practice, parts distribution, legal aspects, customer relations and communications.

Entry Requirements:
1. Junior Certificate and
2. Employment in the motor industry.

Duration: The course comprises a series of units which are studied at home. A short test at the end of each unit must be satisfactorily completed before proceeding to the next unit.

Course Fee: £230.


Award: Vehicle Parts Personnel Certificate (City and Guilds of London Institute).

Career Opportunities: Progression within the industry.

Further Information: Department of Transport Engineering.

MOTOR VEHICLE CRAFT STUDIES DIAGNOSTIC TECHNIQUES

Description: This course is to prepare students for the 381 Part 3 Certificates in Diagnostic Techniques (Engines) and Diagnostic Techniques (Transmission) Examinations.

Content: Study of engines, manual transmissions, automatic transmissions.

Entry Requirements: Department of Education Senior Trade Certificate or equivalent.

Duration: Three ten weeks modules – one evening per week.

Course Fee: £230.

Examinations: Certificate examinations in compressed air brakes, compression ignition engines and fuel injection equipment.

Award: Certificates in Compressed Air Brakes, Compression Ignition Engines and Fuel Injection Equipment – City and Guilds of London Institute (381 Part III).

Career Opportunities: Progression in the industry.

Further Information: Department of Transport Engineering.

MOTOR VEHICLE CRAFT STUDIES ELECTRICITY/ELECTRONICS

Description: This course prepares students for the City and Guilds 381 Part 3 Certificate in electronics and microprocessor applications in vehicle examinations.

Content: Motor vehicle electricity and motor vehicle electronics.

Entry Requirements: Department of Education Advanced Technological Certificate or equivalent.

Duration: One year – thirty weeks.

Course Fee: £230.

Examinations: Certificate examinations in electronics and microprocessor applications in vehicle examinations.

Award: Certificate in Electronics and Microprocessor Applications in Vehicle Examinations – City and Guilds of London Institute (381 Part III).

Career Opportunities: Progression in the industry.

Further Information: Department of Transport Engineering.
AUTO-ENGINEERING TECHNICIAN

Description:
This course prepares students for the following examinations:
(a) Advanced Motor Car Engineering Technology Certificate (Department of Education).
(b) City and Guilds 390 Parts 2 and 3 Certificates.

Content:
Motor car engineering, automobile electricity/electronics, garage organisation and management, computer studies, heat engines and applied mechanics.

Entry Requirements:
1. Department of Education Senior Trade Certificate including endorsement subjects
   or
2. Department of Education Intermediate Technological Certificate (two subjects)
   or
3. City and Guilds 390 Part 1 Certificate or equivalent.

Duration:
One year - one day and one night per week.

Course Fee:
£330.

Examinations:
(a) Advanced Motor Car Engineering Technology Certificate
(b) City and Guilds 390 Parts 2 and 3 Certificates.

Award:
(a) Advanced Motor Car Engineering Technology Certificate - Department of Education.
(b) 390 Parts 2 and 3 Certificates - City and Guilds of London Institute.

Career Opportunities:
Automobile technician advisor, training instructor, workshop supervisor, automobile consultant.

Further Information:
Department of Transport Engineering

AUTOMOBILE ENGINEERING UPDATING COURSES - CONTINUING EDUCATION PROGRAMME

Description:
This course is designed to update trade personnel in modern developments and techniques relating to engines, transmission systems and electronics, e.g. ABS/traction control, airbags, four wheel steering, fuel injection.

Entry Requirements:
To be decided.

Duration:
To be arranged.

Career Opportunities:
Progression in the industry.

Further Information:
Department of Transport Engineering
TECHNOLOGICAL CERTIFICATE IN AUTOMOBILE ENGINEERING

Description: To prepare students for the Technological Certificate examinations of the Department of Education.

Content:
Elementary Stage: Automobile electricity/electronics, motor car engineering, engineering science.
Intermediate Stage: Automobile electricity/electronics, motor car engineering, engineering science.
Advanced Stage: Automobile electricity/electronics, heat engines and applied mechanics, motor car engineering, garage organisation and management.

Entry Requirements:
Elementary Stage: Irish Leaving Certificate or employment in the motor industry.
Advanced Stage: Intermediate Technicians Certificate.

Duration:
Elementary Stage: One year - three evenings per week.
Intermediate Stage: One year - three evenings per week.
Advanced Stage: One year - four evenings per week.

Course Fee:
Elementary Stage: £330.
Advanced Stage: £330.

Examinations: Technological Certificate Examinations.
Award: Technological Certificate - Department of Education.
Career Opportunities: Automobile technical advisor, training instructor, workshop supervisor, automobile consultant.
Further Information: Department of Transport Engineering

MOTOR INDUSTRY MANAGEMENT CERTIFICATE/HIGHER CERTIFICATE

Description: To prepare students for the Certificate/Higher Certificate of Management examinations of the Institute of the Motor Industry.

Content:
Certificate: Management, legislation, motor industry administration and organisation, finance, reception management, computer applications, marketing and promotion, consumer and commercial law.

Entry Requirements:
1.) Irish Leaving Certificate or equivalent qualification and
2.) Employment in the motor industry and
3.) Department of Education Advanced Technological Certificate to include garage organisation and management.

Duration:
Three Years:
Year 1 - two evenings per week
Year 2 - one evening per week
Year 3 - two evenings per week - Higher Certificate Stage

Course Fee:
Year one: £330.
Year two: £230.
Year three: £330.

Career Opportunities: Employment in managerial area of motor trade, progression in management of motor industry.
Further Information: Department of Transport Engineering.
ROAD TRANSPORT STUDIES

Description: To prepare students for the following examinations:
(1) The Institute of Road Transport Engineers.

Content: Transport Legislation (technical and administrative), Transport Operational Principles.

Entry Requirements:
Year 1: Department of Education Senior Trade certificate including endorsement subjects and City and Guilds of London Institute 390 Part 1 Certificate or equivalent.
Year 2: Institute of Road Transport Engineers subjects 1 and 2.
Year 3: Institute of Road Transport Engineers subjects 1 - 4 or completion of course B178.

Duration: Year one and two - one evening per week.
Year three - two evenings per week.

Course Fee:
Year one and two: £230.
Year three: £330.

Examinations: 1.) The Institute of Road Transport Engineers
2.) Department of Transport, Energy and Communications.

Award: Certificate of Professional Competence from the Department of Transport, Energy and Communications.

Career Opportunities: Progression in management of transport industry.

Further Information: Department of Transport Engineering

BOOK AND ARCHIVE RESTORATION

Description: To explore the necessary skills required to restore books/archives.

Content: Repair and presentation of books and documents. Care of manuscripts and archives.

Duration: One year, one evening per week.

How to Apply/Enrol: Call in person and complete application form. Suitable for those employed in hand binderies and local records offices.

Course Fee: £230.

Examinations: None.

Career Opportunities: Advancement in the care of books, manuscripts and archives.

Further Information: Department of Printing and Graphic Communications.

PRINT FINISHING

Description: To enable print finishing operators to upgrade requisite skills.

Content: Techniques and materials
Hand and machine operations
Gathering
Stitching
Gluing
Finishing

Duration: One year, one evening per week.

How to Apply/Enrol: Call in person and complete application form. Suitable for those engaged in print finishing operations.

Course Fee: £230.

Examinations: None.

Career Opportunities: Progression in Print Finishing Industry.

Further Information: Department of Printing and Graphic Communications.
INTRODUCTION TO PRINTING TECHNOLOGY

Description: To give clerical operators in printing an understanding of requisite technology.

Content:
- Origination technology.
- Printing technology.
- Print finishing technology.

Entry Requirements: Irish Leaving Certificate (or equivalent) or acceptable industrial experience.

Duration: One year, one evening per week.

How to Apply/Enrol: Call in person and complete application form.

Course Fee: £230.

Examinations: Two written papers.

Award: Certificate in Printing Technology (British Printing Industries Federation).

Career Opportunities: Office administration in graphic communications.

Further Information:
- Department of Printing and Graphic Communications.

COST ACCOUNTANCY FOR PRINTERS

Description: To give students an understanding of the practice of cost accounting in graphic communications.

Content:
- Budgeting.
- Cost recovery budget centres.
- Calculation of cost recovery rates.

Entry Requirements: Royal Society of Arts certificate in Accounting and Office Procedures (or equivalent) or acceptable industrial experience.

Duration: One year, one evening per week.

How to Apply/Enrol: Call in person and complete application form.

Course Fee: £230.

Examinations: Two written papers.

Award: Certificate in Cost Accounting (British Printing Industries Federation).

Career Opportunities: Office administration in graphic communications.

Further Information:
- Department of Printing and Graphic Communications.

ESTIMATING FOR PRINTERS

Description: To give students an understanding of the practice of estimating in graphic communications.

Content:
- Calculation of paper quantities.
- Estimating for single/multi colour.
- Pricing.

Entry Requirements:
- a) Irish Leaving Certificate (or equivalent), or
- b) Acceptable industrial experience, or
- c) Introduction to Printing Technology examination of BPIF.

Duration: One year, one evening per week.

How to Apply/Enrol: Call in person and complete application form.

Course Fee: £230.

Examinations: Two written papers.

Award: Certificate in Estimating (British Printing Industries Federation).

Career Opportunities: Estimating in graphic communications.

Further Information:
- Department of Printing and Graphic Communications.

PAPER TECHNOLOGY

Description: To give students an understanding of the manufacture of paper and paper products.

Content:
- Year 1: Manufacturing materials
- Manufacturing process.
- Year 2: Marketing
- Administration.

Entry Requirements: Irish Leaving Certificate (or equivalent) or acceptable industrial experience.

Duration: Two years, one evening per week.

How to Apply/Enrol: Call in person and complete application form.

Course Fee: £230.

Examinations: One written paper each year.

Award: Diploma in Paper Training Technology awarded by the Institute of Paper.

Career Opportunities: Administration in graphic communications/paper sales.

Further Information:
- Department of Printing and Graphic Communications.
**B187**

**Description:**
To give those with experience/qualifications in art a knowledge of the graphic arts environment.

**Year 1:** Typographic design
- Printing processes.

**Year 2:** Packaging design
- Book/magazine layout.

**Entry Requirements:**
a) Irish Leaving Certificate (or equivalent), or
b) Acceptable industrial experience, or
c) Department of Education Senior Certificate in a graphic arts subject.

**Duration:**
Two years, two evenings per week.

**How to Apply/Enrol:**
Call in person and complete an application form.

**Course Fee:**
£330.

**Examinations:**
None.

**Career Opportunities:**
Graphic designer.

**Further Information:**
Department of Printing and Graphic Communications.

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**B188**

**INTRODUCTION TO MANAGEMENT (GRAPHIC INDUSTRIES)**

To give students an appreciation of the techniques of management in the Graphic Communications industry.

**Principles of management.**

**Functions of management:** Production
- Finance
- Personnel
- Information Technology.

**Entry Requirements:**
a) Irish Leaving Certificate (or equivalent), or
b) Acceptable industrial experience.

**Duration:**
One year, one evening per week – 19.00 hrs to 22.00 hrs.

**How to Apply/Enrol:**
Call in person and complete an application form.

**Course Fee:**
£230.

**Examinations:**
Two written papers plus final dissertation.

**Award:**
Certificate in Introduction to Management (Graphic Industries) awarded by City and Guilds of London Institute.

**Career Opportunities:**
Progression to management in industry.

**Further Information:**
Department of Printing and Graphic Communications.

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**B189**

**Description:**
To give students an appreciation of the rudiments of packaging.

**Content:**
Materials, legislation, machinery.

**Entry Requirements:**
(1) Irish Leaving Certificate (or equivalent), or
(2) Acceptable industrial experience.

**Duration:**
One year, one evening per week.

**How to Apply/Enrol:**
Call in person and complete an application form.

**Course Fee:**
£230.

**Examinations:**
Three written papers plus final dissertation.

**Award:**
Diploma in Packaging awarded by the Institute of Packaging.

**Career Opportunities:**
Manufacturing/marketing of packaging.

**Further Information:**
Department of Printing and Graphic Communications.
**BOOKBINDING AND PRINT FINISHING RETRAINING**

**Description:** To upgrade the skills of practising bookbinders.

**Content:** Materials, technology, operations.

**Entry Requirements:** Employment in the printing industry.

**Duration:** One year, one evening per week.

**How to Apply/Enrol:** Call in person and complete an application form. Suitable for those seeking to upgrade their knowledge of print finishing operations.

**Course Fee:** £230.

**Examinations:** None.

**Career Opportunities:** Progression in Print Finishing industry.

**Further Information:** Department of Printing and Graphic Communications.

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**LITHOGRAPHY AND PHOTOLITHOGRAPHY RETRAINING**

**Description:** To offer second chance learning facilities to printers needing skills in photolithography.

**Content:** Feeding mechanism, damping systems, platemaking/planning.

**Entry Requirements:** Employment in the printing industry.

**Duration:** Ten weeks, two evenings per week.

**How to Apply/Enrol:** Call in person and complete an application form. Suitable for those engaged in small scale operations.

**Course Fee:** £230.

**Examinations:** None.

**Career Opportunities:** Introduction to offset lithography technology.

**Further Information:** Department of Printing and Graphic Communications.

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**ADVANCED LITHOGRAPHIC PRINTING AND PLATEMAKING**

**Description:** To facilitate experienced photolithographers in upgrading their skills.

**Content:** Large scale press operation, single/multiple units, process colour, ink/ink mixing.

**Entry Requirements:** A full apprenticeship, employment in the industry or completion of course B192.

**Duration:** Ten weeks, two evenings per week.

**How to Apply/Enrol:** Call in person and complete an application form.

**Course Fee:** £230.

**Examinations:** None.

**Career Opportunities:** Progression to large scale printing technology.

**Further Information:** Department of Printing and Graphic Communications.

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**DESK TOP PUBLISHING**

**Description:** To give students a knowledge of the rudiments of Desk Top Publishing.

**Content:** Typographic design, hardware/software, printing technology, Keyboarding skills.

**Entry Requirements:**

**Duration:** Ten weeks, two evenings per week.

**How to Apply/Enrol:** Call in person and complete an application form. Suitable for those seeking training in Desk Top Publishing techniques.

**Course Fee:** £230.

**Examinations:** None.

**Career Opportunities:** Desk Top Publishing operator.

**Further Information:** Department of Printing and Graphic Communications.
ADVANCED DESK TOP PUBLISHING

Explore in depth the practice of Desk Top Publishing
Adobe Illustrator, Photoshop, hardware.

Entry Requirements:
a) Keyboarding skills, and
b) Experience in industry, or
c) Completion of course number B197.

Duration:
Ten weeks, two evenings per week.

How to Apply/Enrol:
Call in person and complete an application form. Suitable for those seeking training in Advanced Desk Top Publishing

Course Fee:
£330.

Examinations:
None.

Career Opportunities:
Progression in Desk Top Publishing field.

Further Information:
Department of Printing and Graphic Communications.

SCREEN PRINTING

To give students an appreciation of screen printing practice.
Screen preparation, materials, printing techniques.

Entry Requirements:
Employment in the industry.

Duration:
One year, one evening per week.

How to Apply/Enrol:
Call in person and complete an application form. Suitable for those seeking to upgrade skill levels in screen printing.

Course Fee:
£230.

Examinations:
None.

Career Opportunities:
Progression in Screen Printing Industry.

Further Information:
Department of Printing and Graphic Communications.

OTHER PART-TIME COURSES

The Dublin Institute of Technology also offers an extensive range of Part Time Courses at its other Centres

Accounting – Chartered Institute of Management Accountants
Accounting – Diploma in Credit Management
Accounting – Institute of Accounting Technicians in Ireland
Accounting – Institute of Certified Public Accountants in Ireland
Accounting – The Chartered Association of Certified Accountants
Advertising – Diploma in Advertising (IAEC)
Art – An Overview of 20th Century Movements and Art Works
Art – Life Drawing and Painting
Art – Public Art
Art – Survey of Contemporary International Art Practices
Art – Women in Art History
Business – National Diploma in Business Studies (Training and Development)
Business – Start Your Own Business
Business Studies – National Diploma in Business Studies
Catering – Advanced Chef Modular Programme (Ethnic Cookery)
Catering – Advanced Chef Modular Programme (Fish and Sauce)
Catering – Advanced Chef Modular Programme (Kitchen Management)
Catering – Advanced Chef Modular Programme (Larder)
Catering – Advanced Chef Modular Programme (Pastry)
Catering – Apprentice Chefs (day release)
Catering – Apprentice Restaurant Service (day release)
Catering – Bakery and Delicatessen Food Production
Catering – Basic/Higher Certificate in Wine and Spirit Studies
Catering – Confectionery Art (Pastry Production)
Catering – Confectionery Art (Sugar Craft)
Catering – Executive Dining
Catering – Food and Beverage Control
Catering – Food and Beverage (Intermediate) Restaurant Service
Catering – Royal Icing Intermediate Level – Year One
Catering – Royal Icing Advanced Level – Year Two
Catering – Skills Development for Cooks (Part 1)
Catering – Skills Development for Cooks (Part 2)
Catering – Sugar Paste (Sugarcraft) Intermediate Level – Year One
Catering – Sugar Paste (Sugarcraft) Advanced Level – Year Two
Catering – Supervisory Management
Catering – Trainee Bartender
Catering – Using Spreadsheets in Food and Beverage Management
Chemistry – Diploma/Degree BSc. (Chemical Sciences)
Computer – Business and Office Technology Applications Programme
Computer – Computer Applications and the Environment

Department of Printing and Graphic Communications.
Computer – Course in Cobol Programming
Computer – Course of Examinations of the British Computer Society
Computer – Information Technology and Change Management (Catering)
Computer – Information Technology for Hospitality Industry
Design – Post Graduate Diploma in Computer Graphics
Design – Display Design
Design – Furniture Restoration
Design – Photography and Advertising Graphics
Design – Woodcarving
Drama – Course in Creative Drama
Electrical – Craft Based Technician Certificate – Electrical Installation Technology
Electrical – Electrical Installation Work (Evening Courses)
Electrical – Electrical and Electronic Engineering Technicians’ Course
Electrical – Programming Logic Controllers (PLCs) – Evening
Electrical – Updating Courses for Dept. of Education Junior and Senior Trade Exam
Electrical – Updating Electrical Installation Technology and ETCI Rules
Electrical – Updating in Electrical Installation Technology Light-Current Applications
Electronics – Digital Electronics and Microprocessors
Electronics – Electronic Equipment Maintenance
Electronics – Electronic Servicing (Industrial Equip. Radio, TV and Audio Equip.)
Engineering – Course for the Engineering Council – Part 1
Engineering – Course for the Engineering Council – Part 2
Floristry
Food – Nutrition in Food Service
Food – Microbiology and Hygiene in Food Service
Food Science – Diploma in Food Science
Food Science – Graduate Diploma of the Institute of Food Science and Technology
Health – Continuous Professional Development in Environmental Health
Health – Diploma in Health Care Technology
Health – Health, Safety, and Security for Business Managers
Languages – Diploma in Translation
Languages – Modern Languages for Specialist Purposes
Languages – Modern Languages for Vocational/Specialist Purposes
Languages – Post-Grad. Diploma in Applied Linguistics
Law – Certificate in the Law of the European Union
Law – Diploma in Legal Studies
Law – B.Sc in Management Law
Law – Post Graduate Diploma in Criminological Studies
Management – Bar Management
Management – Certificate in Supervisory Management.
Management – Diploma in Hotel and Catering Management
Management – B.Sc in Management Services
Management – Effective Management (Catering)
Management – Health Services Management (Certificate/Diploma)
Management – Hotel Management (HCl)
Management – Purchasing and Materials Management (Cert/Adv.Cert/Dip)
Management – Retail and Wholesale Management
Management – Retail Foodstore Management
Management – Retail Meat Management Course
Management – Security Management
Management – Security Management (Advanced Course Membership)
Marketing – An Introduction
Marketing – Financial Services Marketing
Marketing – Graduateship of Marketing Institute
Marketing – Diploma in Marketing
Marketing – Foundation Certificate in Marketing
Marketing – The Marketing Institute
Mathematics – Certificate in Math/Licentiate of Institute of Mathematics
Mathematics – Diploma in Mathematics / Graduateship of Institute of Mathematics
Mathematics – Mathematics for Engineering
Mathematics – Mathematics for Telecommunications
Meat – Meat Apprentice
Media Studies – Graduate Diploma in Media Studies
Medical – Certificate in Medical Records and Patient Service Management
Medical – Technician Certificate in Medical Physics and Physiological Measurement
Music – Accompaniment
Music – Adult Listening Repertoire
Music – Aural (Adult)
Music – Bassoon
Music – Boys Treble
Music – Chamber Music
Music – Church Organ
Music – Clarinet
Music – Classical Guitar
Music – Concert Harp
Music – Double Bass
Music – Duet
Music – Euphonium
Music – External Diploma
Music – Flute
Music – French Horn
Music – French Song
Music – Harpsichord
Music – Irish Harp
Music – Jazz Improvisation
Music – Jazz Trombone
The information in this booklet is intended as a guide to persons seeking admission to the Institute and shall not be deemed to constitute a contract between the Institute and an applicant or any third party.

References to the requirements of outside professional bodies are not intended to be complete or exhaustive at the time of publication since they are subject to change. Accordingly, those interested are advised to make direct contact with the professional bodies concerned to ascertain their up-to-date requirements.

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