

1994

Part-time Courses 1994-95

City of Dublin Vocational Education Committee

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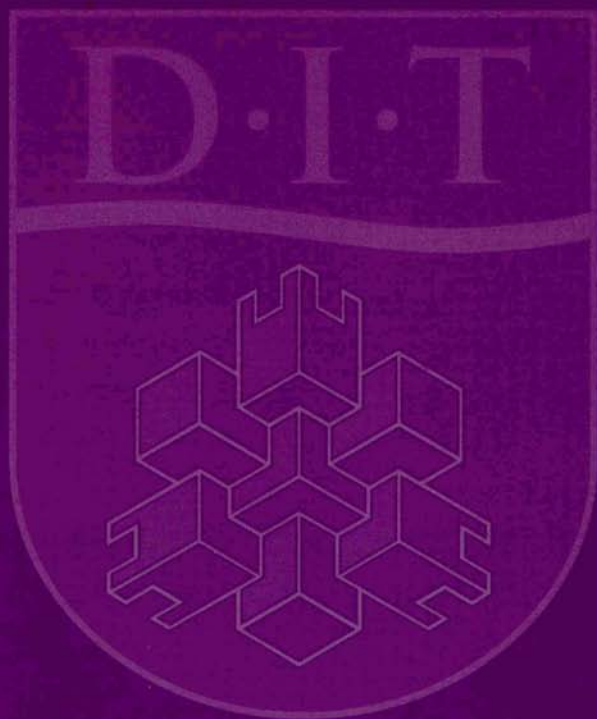
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DUBLIN INSTITUTE
of TECHNOLOGY

Institiúid Teicneolaíochta Bhaile Átha Cliath

PART-TIME COURSES 94-95



BOLTON STREET
SRÁID BHOLTÚIN



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**DIT Bolton Street
Dublin 1
Tel: (01) 872 7177. Fax: (01) 872 7879**

Acting Director: **Michael Murphy, Dip.Eng., MSc., C.Eng., M.I.Mech E.**

Secretary/Registrar: **Tom Foley**

*Administrative
Offices of DIT:* **Dublin Institute of Technology**
Fitzwilliam House,
30 Upper Pembroke Street,
Dublin 2.

Tel:+353-1-661 1688
Fax:+353-1-661 1696

President: **Brendan Goldsmith BSc, MSc, DPhil.**

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FOREWORD

I am very pleased to launch this new DIT initiative involving the production of a co-ordinated series of booklets that provide information about the part-time and apprenticeship courses which may be offered by the Institute in its different centres in the 1994/95 session. Since the establishment of the first of our Colleges in Kevin Street in 1887 there has been a special commitment to part-time education, and over the years many thousands of young people (and the not so young!) have benefited from the wide range of courses that has been developed. Today some 15,000 part-time and apprentice students are enrolled in the Colleges of the Institute, which is by far the largest provision being made in this area by any Irish higher education institution.

As part of the process of implementing the Dublin Institute of Technology Act 1992, DIT is in the process of a reorganisation, leading to an overall integrated structure, which hopefully will enable us to offer a wider range of courses and provide a better service to our students. It seems likely that most of the disciplines will continue to be based in their present sites, at least for the time being, with one major exception - the activities of the former College of Commerce in Rathmines will transfer to a new purpose built 10,000 square metre college in Aungier Street as from September 1994.

We are very aware of the rapid pace of technological change and the need for people to keep abreast of new developments or prepare for new career directions. We hope that you will find a course that is of interest to you in DIT. If not, you might contact the College Department associated with the broad discipline area and make them aware of your area of interest or needs. We are anxious to respond as comprehensively as possible to demands, having regard to available resources, and many of our present courses were developed in response to such expressions of interest. Enquiries from employers, professional bodies and other groups are also welcome in this context.

If you do decide to pursue a part-time or apprenticeship course in DIT we hope that you will both enjoy and benefit from your time with us.

Dr. Brendan Goldsmith.
President.

INTRODUCTION

The College has a strong commitment to providing a wide range of part-time day and/or evening courses relating to its main specialisations in Construction, Engineering and Printing disciplines and associated areas. The aim of these courses is to provide both young people, and the not so young with opportunities to achieve worthwhile qualifications and to enhance and broaden their existing qualifications base.

METHOD OF APPLICATION AND ENROLMENT

With the exception of the Computing courses B70, B71, B72, B81, B82, B83, B91 and B92 application and admission to part-time day and evening courses is by personal attendance for interview at the College between 6.30 p.m. and 8.00 p.m. in accordance with the following schedule.

Monday,

12th September: Enrolment for all part-time and evening courses provided by the College except courses in the following: Printing, Automobile and Aeronautical Engineering.

Wednesday,

14th September: Enrolment for courses in Printing, Automobile and Aeronautical Engineering

Thursday,

15th September

and

Friday,

16th September

Enrolment for all part-time day and evening courses in which vacancies remain

Prior application or contact with the College is not necessary. Candidates are encouraged to bring with them evidence of existing qualifications and employment together with the specified tuition fee to enable them to complete the enrolment if they are acceptable and permitted to do so. Classes are generally scheduled to commence during the week commencing September 26th and those who have enrolled will be expected to report for classes in accordance with the schedule which will be available.

Applications for admission to the Computer courses must be made on the official form available on request from the

B2

CONSTRUCTION TECHNOLOGY CERTIFICATE/ DIPLOMA PART-TIME

This day release course is similar to the wholetime Construction Technology Certificate/Diploma course (DT114) and leads to the award of the Construction Technology Certificate/Diploma. Classes are scheduled on one day and two evenings per week over a period of four years. Entry to this course is open to those holding:

- (a) The secondary schools Leaving Certificate in at least five subjects including Mathematics and English or an equivalent qualification.
- (b) Appropriate employment in the Construction Industry.

Course fee

<i>First Year</i>	£330
<i>Subsequent Years</i>	£230

Department in Charge: Surveying and Building Technology.

B4A

DIPLOMA/DEGREE IN CONSTRUCTION ECONOMICS PART-TIME

This day release course is similar to the corresponding wholetime course (FT02) and leads to the award of a Diploma/Degree in Construction Economics. Classes are scheduled on one day and two evenings per week over a period of six years. The academic entry qualifications to the First Year of the course are similar to those for FT110. Candidates holding relevant technician qualifications at an appropriate level may be eligible for exemptions from one or more years of the course. Candidates must be in appropriate employment in the Construction Industry.

Course fee

£640

Department in Charge: Surveying & Building Technology.

B3

PROFESSIONAL COURSE IN SURVEYING AND CONSTRUCTION STUDIES

This evening course assists, students who hold Intermediate Level qualifications in the construction and surveying fields, in progress to full professional qualifications of appropriate institutions. Students may attend classes up to two evenings per week depending on their choice of subjects.

Entry Qualifications

N.C.E.A. Diploma in Construction Studies, C.T.D., Member 1 Examination of C.I.O.B. or R.I.C.S., Part 1 examinations.

Course fee

£330

Department in Charge: Surveying and Building Technology.

B5

GRADUATE DIPLOMA IN ARBITRATION LAW

The objectives of this one year part-time course are to provide participants with a better knowledge of the law and arbitration including the Arbitration Acts of 1954 and 1980. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators. Normally this course runs on alternate years. It is expected that it will again be provided in 1995/96.

Entrance Requirements

Relevant professional qualification (e.g. Law, Engineering Architecture, Surveying, Accountancy, Insurance etc.) with exemptions from modules (a) and (b) for practising lawyers and those with a recognised law degree. Exceptionally, applications will be accepted from unqualified students who have appropriate training or experience. Selection will be subject to interview. Exempted students will be deemed to enrol in course B5A.

Course of Study

The course comprises three taught modules and two seminars.

The taught modules are:

(a) Legal Principles, Civil Procedure & Evidence (b) Contract & Tort and (c) Arbitration Law & Procedure, Alternative Methods of Dispute Resolution. The two seminars which are organised by the Irish Branch of the Chartered Institute of Arbitrators deal with: (i) Introduction to Arbitration and (ii) ADR and Award Writing. They are subject to a separate fee payable to the Irish Branch of the Institute.



Examinations
& Awards

On successful completion of course students will be awarded the Dublin Institute of Technology Graduate Diploma in Arbitration Law. It is intended to seek exemption for holders of this Diploma from Parts I and II of the examinations of the Chartered Institute of Arbitrators

Course fee £900

Department in Charge: Surveying & Building Technology

B6

GRADUATE DIPLOMA IN INTERNATIONAL ARBITRATION LAW

The objectives of this one year part-time course are to provide a better knowledge of the practice of international arbitration law and procedures. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators and will next be offered in the 1994/95 session.

Entrance
Requirements

Application will be open to those holding the DIT Diploma in Arbitration Law, Fellows of the Chartered Institute of Arbitrators and those who have passed Parts I and II of the examinations of that Institute. Selection will be subject to interview.

Course of
Study

The course comprises two taught modules and four special seminars. The taught modules are:
(a) Comparative Law & Procedure; (b) International Arbitration, Practice & Procedure. The special intensive two day seminars are led and directed by visiting specialist lecturers and are organised by the Irish branch of the Chartered Institute of Arbitrators.

Examinations
& Awards

On successful completion of the course students will be awarded the Dublin Institute of Technology Graduate Diploma in International Arbitration Law.

Course fee £600

Department in Charge: Surveying & Building Technology.



B7

GRADUATE DIPLOMA IN PLANNING AND DEVELOPMENT ECONOMICS

The objective of this part-time post-graduate course, which extends over two academic years, is to meet the educational requirements for practice as a Planning and Development Surveyor. The first year of this course will next be offered in the 1994/95 session.

Entrance
Requirements

- (1) (a) a recognised professional qualification in the fields of Planning, Architecture, Surveying, Engineering, Law, Accountancy
or
(b) an Honours Degree in an appropriate discipline viz. Surveying, Economics, Law, Geography, Business Studies. and
- (2) Employment in, or evidence of appropriate post-certification work experience in the Built Environment field.

Course of
Study

The course consists of two parts:
Part I subjects are Valuations, Law, Urban Land Economics, Taxation and Rating, Building Technology and Management, and Principles and Techniques of Planning.

Part II consists of one integrated subject area containing a number of elements under the general title 'Planning and Development Policies. Practice and Procedures'.

Examinations
& Awards

Part I examinations in the subjects listed above will be held at the end of Year I. Part II examinations will be held and a major planning and development case study presented at the end of Year II.

On successful completion of the course, students are expected to qualify for the award of a Dublin Institute of Technology Graduate Diploma in Land Use Economics. Exemption will be sought for holders of this Diploma from the Part II and II1 examinations of the Planning and Development Division of the Royal Institution of Chartered Surveyors.

Course fee £850

Department in Charge: Surveying & Building Technology.

SHORT COURSES

Short Courses in aspects of Building, Project Management and Computer Applications may be held during the session. Enquiries relating to these will be welcomed by the Department of Surveying and Building Technology.

Department in Charge Surveying and Building Technology.

B40

FOUNDATION COURSE FOR DEGREE IN ENGINEERING

The Department of Engineering Technology will offer a four year course leading to a Diploma/Degree in Engineering on a part-time basis commencing in September 1995. It is open to those who already hold an appropriate Technician Diploma qualification.

In the 1994/95 session the Department will offer the Foundation Year (or first year) Course for applicants who possess a Technician Diploma at Merit or Pass level. Applicants with a Distinction in their Diploma will be allowed entry to the second year commencing September 1995.

Following the Foundation Course students will complete three years on a Part-time basis with the object of achieving the qualification of Diploma/Degree in Engineering

Course fee

£330

Department in Charge: Engineering Technology

B41

GRADUATE COURSES IN ENGINEERING

This is a day and/or evening course to prepare students for the Part II examinations of Professional Engineering Bodies including:-

- (i) Institution of Engineers of Ireland.
- (ii) The Engineering Council (UK) and its associated Professional Bodies such as:—

- (a) The Institution of Mechanical Engineers;
- (b) The Institution of Electrical Engineers;
- (c) The Institution of Structural Engineers;
- (d) Chartered Institute of Building Services Engineers.

Courses are offered for subjects in the Part II stage provided there are sufficient applicants of a suitable educational standard.

Depending on demand, the following Part II subjects may be offered: The Engineer in Society, Mechanics of Solids, Materials, Structural Analysis, Structural Design, Thermodynamics, Fuel and Energy, Geotechnical Engineering and possibly other subjects. Students are required to complete a Laboratory Programme as part of this course.

Details of the syllabus and examination regulations are available from the Institution of Engineers of Ireland, 22 Clyde Road, Dublin 4.

Entrance
Requirements

Before entry, applicants must meet the requirements of the appropriate institution for student membership. They are urged to make early applications to the Institutions because it may take several months to process and it is not possible to sit the examinations until this has been completed.

The requirement for student membership of the Institute of Engineers of Ireland is Leaving Certificate with Honours or GCE Advanced Level in Mathematics and a suitable Science subject together with four Ordinary Level subjects including English.

Certain Technician qualifications also meet the educational requirements for student membership and may give exemption from all or some subjects in Part I. Details are available from the Department of Engineering Technology

Course fee

£330

Department in Charge: Engineering Technology



B43D/B43E

MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and/or evening course prepares students for a Technician Certificate/Diploma in Mechanical Engineering. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course. It parallels the corresponding whole-time course DT 128 and follows the same core syllabus.

Entrance Requirements

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.

Course of Study

Stage I — First and Second Year—Subjects: Mathematics, Engineering Science, Mechanics, Drawing, Instrumentation and Materials, Workshop Technology, Complementary Studies and Computing.

Stage II—Third and Fourth Years (Certificate Stage): At this stage three options are offered: Mechanical, Welding and Fluid Power. Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies and Computing.

Stage III—Fifth and Sixth Years (Diploma Stage) This stage offers options in Municipal Engineering. Candidates are expected to be employed and gaining suitable experience in the appropriate field and are required to have passed the Certificate Stage with Credit, or have one year's suitable experience together with a Pass Certificate.

Municipal Option: Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Structural Design and a Project.

(Structural Option): Mathematics, Management Studies, Theory of Structures, Structural Design (Concrete), Structural Design (Steel), Municipal Engineering and a Project.



Environmental Option: Mathematics, Management Studies, Road Engineering, Sanitary Services, Waste Management, Environmental Impact Assessment, Environmental Studies (Environmental Economics, Ecology, Air and Water Pollution), Environmental Law and Planning and Building Regulations and a Project.

A number of subjects in the various options are taken in common, particularly in the fifth year.

The Environmental Option will commence in the academic year 1995/96.

Examinations and Other Requirements

At the end of each session students take a College examination which is moderated by the National Council for Educational Awards and the Dublin Institute of Technology.

Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of the course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of Membership after they have completed a suitable period of practical training.

Course fee

Stage I	£330
Stage II & III	£230

Department in Charge: Engineering Technology

B45D/B45E

**MECHANICAL ENGINEERING TECHNICIAN
CERTIFICATE AND DIPLOMA COURSE**

This part-time day and/or evening course prepares students for a Technician Certificate/Diploma in Mechanical Engineering. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course. It parallels the corresponding whole-time course DT 128 and follows the same core syllabus.

Entrance
Requirements

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.

Course of Study

Stage I - First and Second Year—Subjects: Mathematics, Engineering Science, Mechanics, Drawing, Instrumentation and Materials, Workshop Technology, Complementary Studies and Computing.

Stage II - Third and Fourth Years (Certificate Stage): At this stage three options are offered: Mechanical, Welding and Fluid Power.

Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies and Computing.

Mechanical Option: Mechanics, Design and Engineering Materials, Manufacturing Technology and Design (years work).

Welding Option: Design and Materials, Welding Technology, and Welding Inspection.

Fluid Power Option: Fluid Power 1, Fluid Power Systems, and Machine Controls.

Stage III - Fifth and Sixth Years (Diploma Stage) At this stage an Instrumentation Option is offered on a part-time basis at present and candidates are expected to be employed in this field. Subjects: Mathematics, Management Studies, Electrotechnology and Electronics, Control Engineering, Industrial Instrumentation, Design, and Project Work together with either Mechanics and Manufacturing Design or Material Science and Process Plant Design and Management.

Examinations
and Other
Requirements

Candidates are required to have passed the Certificate Stage with Credit (Merit) or to have at least one year's suitable experience together with a Pass Certificate.

At the end of each session students take a College examination which is moderated by the National Council for Educational Awards and the Dublin Institute of Technology.

Recognition by
Professional
Bodies

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of Membership after they have completed a suitable period of practical training.

Course fee

Stage I	£330
Stage II & III	£230

Department in Charge: Engineering Technology.

B44D/B44E

**BUILDING SERVICES ENGINEERING TECHNICIAN
CERTIFICATE AND DIPLOMA COURSE**

This part-time day and or evening course prepares students for a Technician Certificate/Diploma in Building Services Engineering. Students are expected to be already suitably employed in Building Services Engineering before commencing the course. It parallels the corresponding whole-time Course DT127 and follows the same core syllabus.

Entrance
Requirements

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.

Course of Study

Stage I - First and Second Years Subjects: Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation, Building Construction and Services, Complementary Studies and Computing.

Stage 11 - Third and Fourth Years (Certificate Stage): At this stage two options are available, Building Services and Refrigeration Technology.

Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies and Computing.

Building Services Option: Environmental Engineering, Environmental Plant Design, Lighting, Acoustics and Water Services.

Refrigeration Technology Option: Refrigeration Plant, Refrigeration Design, Lighting, Acoustics and Water Services.

Stage III- Fifth and Sixth Years (Diploma Stage): Mathematics, Management Studies, Electrotechnology and Controls, Lighting and Acoustics, Environmental Engineering, Air Conditioning and Refrigeration, Heating and Combustion, Computing and a Project.

Course fee	<i>Stage I</i>	£330
	<i>Stage II & III</i>	£230

Department in Charge: Engineering Technology

B47D/B47E

MECHANICAL ENGINEERING TECHNICIAN COURSE

This part-time day and evening course is intended to prepare students for the City & Guilds of London examinations for Mechanical Engineering Technicians (2550). The course is for technicians and draughtsmen engaged in the following types of employment:

Machine Tool Operation, Jig & Tool Design, Engineering Production and Design Draughtsmen.

Entrance Requirements

Elementary Stage Technological Certificate of the Department of Education in Mechanical Engineering or Leaving Certificate or endorsement in Senior Craft Certificate or equivalent.

Course of Study	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 and General Studies.				
	Third Year Production Technology, Mathematics and Statistics, Metrology and Management Studies.				
Examinations and Other Requirements	At the end of the first year students take the Part I examination of the City & Guilds of London Institute No. 2550, Part 11 at the end of the second year, and Part 111 at the end of the third year.				
Course fee	<table> <tr> <td><i>First Year</i></td> <td>£330</td> </tr> <tr> <td><i>Second & Third Year</i></td> <td>£230</td> </tr> </table>	<i>First Year</i>	£330	<i>Second & Third Year</i>	£230
<i>First Year</i>	£330				
<i>Second & Third Year</i>	£230				

Department in Charge: Engineering Technology

B48

CERTIFIED MANUFACTURING TECHNOLOGIST

This course is designed to assist students to prepare for the Manufacturing Engineering Part 1 examination of the Society of Manufacturing Engineers. This leads to the award of Certified Manufacturing Technologist (CMfgT). The course is aimed at technicians, supervisors, production managers and engineers engaged in manufacturing. A further year's study will lead to the award of Certified Manufacturing Engineer (CMfgE).

Entrance Requirements	Candidates must have 4 or more years manufacturing engineering experience and suitable education.
Course Content	A review of manufacturing engineering fundamentals including applied mechanics, materials, quality control, management, computer applications, automation, manufacturing processes and engineering design. Duration: One year, two evenings per week.
Course fee	£330

Department in Charge: Engineering Technology



B54

STRUCTURAL DESIGN COURSE

This is a one year advanced course intended for those who wish to prepare for the Part 111 Design examination of the Institution of Structural Engineers. Depending on demand, there may be options in Steel or Concrete Design.

Entrance Requirements

A degree in Civil or Structural Engineering, or a pass in IEL/ Engineering Council examinations, or equivalent, together with at least one year of suitable post-graduate experience in a structural design office.

Department in Charge: Engineering Technology.

B57

INDUSTRIAL MANAGEMENT CERTIFICATE AND DIPLOMA COURSE

This is a two year evening Certificate course intended for engineering technicians and trainee production and industrial managers who wish to take the certificate examinations of the Institution of Industrial Managers. The Diploma stage is intended primarily for those responsible for discharging management functions.

Entrance Requirements

Students entering the Certificate course should have reached the Leaving Certificate standard of general education and be suitably employed as managers or supervisors in industry. Applicants holding an appropriate degree or professional qualification and substantial management experience may be admitted directly into the Third Year of Diploma Stage.

Course of Study

First Year Subjects: Production and Operational Management, Industrial Environment, Industrial Management and Organisation, Microelectronics and Data Handling.

Second Year Subjects: Production and Operation Management, Industrial Finance, Personnel and Industrial Relations.

Third Year (Diploma Stage) Subjects: This involves a further one year period of study of Industrial Management Policy and Practice in which knowledge acquired during the Certificate course is applied to solve practical problems by an integrated approach using case studies, etc.



Examinations and Other Requirements

Students must pass a College examination at the end of each year. The examination is moderated by the Institution of Industrial Managers. Those who successfully complete the Certificate course qualify for Associate Membership of the Institution of Industrial Managers. Successful students may continue their studies on the one year Diploma course, which leads to Membership grade (MIIM).

Those who enrol are required to apply for student membership

Course fee
First Year £330
Second Year £230

Department in Charge: Engineering Technology

B58

REFRIGERATION ENGINEERING TECHNICIAN

This is a two year course for technicians employed in the refrigeration engineering industry. Suitable students are prepared for the City & Guilds of London Institute examinations in the Science and Technology of Refrigeration (2570). The subjects of instruction are:- Science, Refrigeration Processes and Machinery, and Drawing.

Course fee £330

Department in Charge: Engineering Technology.



B59

SHORT COURSE PROGRAMME

A series of 1-5 day short courses on modern developments in Engineering Technology may be organised at different stages during the session. These may include:

- (a) Low Cost Automation;
- (b) Fluid Power;
- (c) Maintenance Management Techniques;
- (d) CAD/CAM
- (e) New Developments in Welding Technology;
- (f) Fuel Technology;
- (g) Fire Safety;
- (h) Structural Design Codes;
- (j) New Materials;
- (k) Water Pollution Control;
- (l) Energy Conservation;
- (m) Engineering Costing and Estimating.

Department in Charge: Engineering Technology.

B61

MAINTENANCE TECHNOLOGY CERTIFICATE COURSE

This course will provide participants with a knowledge of maintenance strategies and skills to cope with the demands of modern maintenance requirements.

The course is organised on a modular basis and has considerable flexibility for craftspersons and other maintenance staff to enhance their qualifications.

Leaving Certificate in five subjects including English and Mathematics, or appropriate Senior Trades Certificate with endorsements or equivalent qualifications or mature applicants. Participants should have at least three years experience performing plant maintenance duties.

Certification will be provided by the National Council for Educational Awards and the course is offered in the NCEA ACCS mode to allow participants to study for individual subjects, groups of subjects or the entire course programme.

Entrance Requirements

Certification



Course of Study

Certification will be provided on a technology option basis. When the requisite technology option and core subjects have been satisfactorily completed the award of National Certificate in Technology, (Maintenance Technology) will be made.

The following technology options and core subjects are initially being offered subject to demand.

STAGE 1

Common Core Subjects

Mathematics, Computer Studies, Basic Technology, Maintenance Organisation, Technical Communication

Fluid Power Technology Option

Fluid Power Sciences,
Fluid Power Plant 1
Refrigeration & Air Conditioning Option
Basic Heat, Fundamentals of Refrigeration

STAGE 2

Common Core Subjects
Management of Maintenance
Computer Studies II

Fluid Power Technology Option

Fluid Power Science II
Fluid Power Plant II

Course fee

£330

Department in Charge: Engineering Technology

B70

INTRODUCTORY PROGRAMMING

This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examinations 726 Information Technology Program. Successful candidates will receive a City & Guilds Certificate in Programming (Level I)

- 7261-212 Introduction to Computers I
- 7261-200 Basic Programming I
- 7261-201 Cobol Programming I



Course Objective This course covers the fundamental principles of programming. Computers systems in general are covered and the students are introduced to computer application packages in addition to BASIC and COBOL languages.

Course of Study

- Databases
- Computer Systems
- Spreadsheets
- Wordprocessing
- BASIC Language
- COBOL Language

Entrance Requirements Leaving Certificate or Equivalent

Timetable	DAY	TIME	ROOM
	Wednesday	6.30 - 9.30 p.m.	380
	Monday	6.30 - 9.30 p.m.	380

Duration One year, two evenings per week, Monday and Wednesday

Course fee £330

Department in Charge: Science Mathematics & Computing

B71 COMPUTER PROGRAMMING

This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examinations 726 Information Technology Program. Successful candidates of this course will receive a City & Guilds Diploma in Programming (Level 2).

- 7261-212 Introduction to Computers
- 7261-238 Program Design Techniques 2
- 7261-221 COBOL Programming 2
- 7261-224 C Programming 2

Course Objective This course provides an extensive coverage of programming, with emphasis on C and COBOL languages. The principles of structured design and dataprocessing are covered.



Course of Study

- Introductory Computing
- Structured design
- COBOL
- C
- File/Data Processing

Entrance Requirements (a) Leaving Certificate or Equivalent
(b) B70 Introductory Programming or relevant experience.

Duration One Year, two evenings per week, Tuesday and Thursday

Course fee £330

Department in Charge: Science, Mathematics & Computing

B72

ADVANCED PROGRAMMING

This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examination 425 'Applicants Programming Certificate'.

Course Objectives This is an advanced applications programming course enabling the student to design and develop commercial systems using advanced programming and design techniques. This course prepares students for work as a junior programmer.

Course of Study

- Program Design
- Structured Programming
- Problem Solving
- Design & Secification Tools
- Fourth Generation Languages
- Databases
- Program Documentation

Entrance Requirements (a) Leaving Certificate or Equivalent
(b) City & Guilds Preliminary Certificate in Applications Programming or equivalent

Course fee £330

Department in Charge: Science, Mathematics & Computing

B81

AUTOCAD

This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examination 4351 'Introduction to AutoCAD'. Successful candidates of this course who have also successfully completed either courses B91 or B92. will receive a City & Guilds Diploma in Computer Applications (Level 2).

Course Objectives

To give a thorough knowledge of the important aspects of computer aided design and its associated technologies.

Course of Study

- Computer Hardware
- Operating Systems
- AutoCAD
- CAD Concepts
- Drawing Creation & Modification
- Drawing Maintenance
- Hardcopy Generation
- Drawing Management

Entrance Requirements

- (a) Leaving Certificate or Equivalent.
- (b) Reference

Duration

One Year, one evening per week - Monday

Course fee

£330

Department in Charge: Science, Mathematics & Computing

B82

AUTOCAD THREE DIMENSIONAL

This is a one year evening course. Students are prepared for the City & Guilds of London Institute examination 4353 'Three Dimensional AutoCad and Autolisp Programming. Successful candidates of this course who have also completed either courses B91 or B92 will receive a City & Guilds Diploma in Computer Applications (Level 2)

Course Objectives

To enable student to use three dimensional CAD software.

Course of Study

- Menu Customisation
- LISP Programming
- Three Dimensional Draughting
- AutoCAD Release 12
- Autolisp

Entrance Requirements

- (a) Leaving Certificate or Equivalent.
- (b) Reference
- (c) City & Guilds 4351 Introductory AutoCAD or Equivalent.

Duration

One Year, one evening per week, Thursday

Course fee

£330

Department in Charge: Science, Mathematics & Computing

B83

AUTOCAD CUSTOMISATION

This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examination 43s4 AutoCAD Customisation.

Course Objectives

To enable student to setup and customise AutoCAD and ancillary equipment.

Course of Study

- Customising AutoCAD
- Menu Customisation
- CAD Hardware
- AutoCAD Release 12
- Autolisp

Entrance Requirements

- (a) Leaving Certificate or Equivalent
- (b) Reference
- (c) City & Guilds 4351 Introductory AutoCAD or Equivalent

Duration

One year, one evening per week (Wednesday)

Course fee:

£330

Department in Charge: Science, Mathematics & Computing



B91

WORDPROCESSING & DTP

This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examinations from the 726 Information Technology Program. Successful candidates of this course and one of B92, B8 1 and B82 courses will receive a City & Guilds Diploma in Computer Applications (Level 2).

- 7261-420 Word Processing 2
- 7261-427 Desktop Publishing 2

Course Objectives The successful candidate will have competency in the use of wordprocessing and DTP systems.

Course of Study

- Wordprocessing
- Desktop publishing
- Documents Preparation
- Computer Hardware
- Computer Software

Entrance Requirements Leaving Certificate or Equivalent.

Course fee £230

Department in Charge: Science, Mathematics & Computing

B92 **DATABASES & SPREADSHEETS**

This is a one year evening course. Students are prepared for the City & Guilds of London Institute Examinations from the 726 Information Technology Program. Successful candidate B91, B81 and B82 courses will receive a City & Guilds Diploma in Computer Applications (Level 2).

- 7261-421 Databases 2
- 7261-422 Spreadsheets 2

Course Objectives The successful candidate will have competency in the use of spreadsheet and database systems.



Course of Study

- Databases
- Spreadsheets
- Data Management
- Computer Hardware
- Computer Software

Entrance Requirements Leaving Certificate or Equivalent

Course fee £230

Department in Charge: Science, Mathematics & Computing

Application procedure for all computing Courses B70 - B92 (incl.)

1. Complete fully Application Form available on request.
2. Enclose certified copy of Leaving Certificate or Equivalent.
3. Postal applications must be received before 16 September 1994.

Fees are only payable on enrolment - no fees should be with your application form. Applicants may be called for interview. Selection will be based upon academic ability. Where vacancies remain on courses, applications must be made in person after the closing date.

CRAFT & TRADE RELATED COURSES-EVENING

Enquirers seeking further information about trade and trade related courses should contact Departments as follows:

Construction Trades 'A' B102, B104, B106, B300

Construction Trades 'B' B107, B111, B118, B119, B120, B121, B122A, B122B

Metal Fabrication & Plumbing B123, B123A, B123B, B123D, B123E, B125B, B129A, B129B, B130B, B131, B132, B133, B134, B135, B136, B137

Engineering Trades B138, B139, B140, B141A-F

Transport Engineering B150, B151, B152, B153, B154, B155, B156A, B165, B168, B170, B173A, B173B, B173C, B174, B176, B177, B178A, B178B, B179

Printing and Graphic Communications B180, B182, B183, B184, B185, B186, B187, B188, B191, B192, B194, B197, B200

B104

COLOUR AND DESIGN IN BUILDING WORK

This course is designed to give craftspersons an opportunity to study colour, texture and pattern and broken colour work in Building.

Duration

One year-30 weeks at 5 hours per week

Course 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.

Award

City and Guilds of London Institute Certificate 6000-1-09 and 6000-1-5

Course fee

£330

B106

SIGNWORK—ADVANCED

This course is intended to give painting and decorating craftspersons an opportunity to improve their knowledge and skill in the preparation of signwork.

Duration

One year - 30 weeks at 5 hours per week - Part 1.
One year - 30 weeks at 5 hours per week—Part 2.

Course Content

Design, shape and form in signwork. Production of signs, Glass Gilding and Etching, Ornamental Gilding, Silk Screening.

Course fee

£230

B300

BUILDING MAINTENANCE (MODULAR)

The course is designed to prepare students for corporate membership of the Institute of Maintenance and Building Management and to equip them with additional skills for employment and career development.

Entrance Requirement

(a) Employment in the Construction/Maintenance Industry
(b) Interview

B102

DECORATIVE PLASTERWORK

The course is designed to provide the participants with the necessary knowledge and skills to produce and fix decorative plasterwork to various dimensions and designs.

Course Content

Squeeze making; Profile preparation and production; Running moulds; Casting and fixing cornices; Designing and casting centre pieces; Rubber mould production; In-situ cornices; Repairs to existing plasterwork.

Entrance Requirements

Knowledge of Plastering and Construction

Course Duration

30 weeks at 3 hours per week

Course fee

£230



Course of Study	This is a part-time modular course which offers programmes at Certificate and Diploma level. The purpose of the Certificate Programme is to re-introduce students to a course of study at a level which meets their needs and to provide a pre-entry qualification for the Diploma programme.
Certificate Programme	Modules include Corrective and Preventative Maintenance, Finance and Costing (two modules), Communication Techniques, Health, Safety and Welfare at Work, Law of Contract.
Diploma Programme	Modules include Maintenance of Buildings, Planning and Management, Personnel and Industrial Relations, Finance and Costings, Legal and Contractual Responsibilities, Marketing and Sales, Improved Methods of Materials Support.
Services	Classes are held in the evening from 6 - 9 pm and average 36 hours per module. A Continuing Professional Development (CPD) Certificate will be awarded to students who successfully complete individual modules.
Course fee	£140 per module

B107	FURNITURE DESIGN AND CONSTRUCTION (ADVANCED)
	This course is designed to give those in the furniture industry an opportunity to study the various aspects of the industry from preliminary sketch drawings to completed design and prepare for positions of responsibility in the industry.
Course Contents	Sketching and draughtsmanship, Sketch Design, Working Drawings, Presentation Drawings.
Entrance Requirements	Employment in furniture industry and/or City and Guilds of London Furniture Craft Studies Certificate.
Examinations	City and Guilds of London Institute.
Awards	City and Guilds of London Certificate in Furniture Design and Construction. Course 5790.
Duration	Two years—30 weeks at 4 hours/week (2 evenings) each year.
Course fee	£230



B111	CABINETMAKING/CHAIRMAKING
	This course is designed to assist students in preparing for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.
Duration	One year, two evenings per week.
Subjects	Practical, Trade Theory & Drawing.
Entry Requirements	Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.
Course fee	£330

B117	WOODTURNING
	This course is of 10 weeks duration and covers the basics of woodturning. Students attend classes one evening per week
Course fee	£100

B118	TIMBER TECHNOLOGY (INSTITUTE OF WOOD SCIENCE-CERTIFICATE COURSE)
	The aim of the Institute of Wood Science is to advance and encourage the scientific, technical, practical and general knowledge of timber and wood based materials.
	This course of study is designed to satisfy that aim, providing a focused training programme for those involved with either the growth, utilisation, sale or treatment of timber and timber Products.
Course outline	The course prepares participants for the Institute of Wood Science Certificate level examination, is modular in design and comprises five modules:



- 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

Duration	The course will be delivered on two evenings per week and will run for 26 weeks.
Entry Requirements	Mature students will be accepted on the basis of relevant experience and/or interview. New school leavers will be accepted provided they hold a minimum of grade B in a relevant subject in the Intermediate/Junior Certificate and will be subject to interview. They are however encouraged to gain 12 months trade experience before application).
Qualification	Successful participants are rewarded with an internationally recognised professional qualification in timber technology, membership of the Institute of Wood Science at certificate level, and may use the letters CM IWSc.
Course fee	£330



Exemption from First Year of the Course may be granted to an applicant who has achieved an acceptable level in Drawing and Building Subjects. Success in the Elementary Stage Examination is a requirement for entry into the Second Year of the Course.

Success in the Intermediate Stage Examination is a requirement for entry into the Final Year of the Course.

Subjects	<p>1st Year Building Construction, Mathematics and Geometry.</p> <p>2nd Year Building Construction, Builders Quantities, Land Surveying and Setting-out, Plane and Solid Geometry.</p> <p>3rd Year Building Construction, Builders Quantities, Plane and Solid Geometry.</p>				
Course fee	<table border="0"> <tr> <td><i>First Year</i></td> <td>£330</td> </tr> <tr> <td><i>Second & Third Year</i></td> <td>£230</td> </tr> </table>	<i>First Year</i>	£330	<i>Second & Third Year</i>	£230
<i>First Year</i>	£330				
<i>Second & Third Year</i>	£230				

B119	BUILDING TECHNOLOGY
	This is a three year evening course in Building Construction and associated subjects in preparation for the Department of Education technological examinations.
Duration	3 years - 3 evenings per week.
Objectives	Elementary level examination at the end of the first year. Intermediate level examination at the end of the second year. Advanced level examination at the end of the third year.
Entry Requirements	Employment in the Construction Industry and possession of a Group or Intermediate Certificate with a Grade C in Mathematics and Mechanical Drawing, or better.

B120	CRAFT TECHNICIAN CERTIFICATE COURSE IN BUILDING
	This is a three-year part-time course. The course has been designed to enable students on completion of their craft studies to further their career prospects in the Building Industry.
Entry Requirements	Prospective students must have completed at least three years as an apprentice in a recognised building trade and hold a Department of Education Senior Trade Certificate or equivalent trade qualifications.
Course of Study	<p>Stage I: Building Construction 1, Building Measurement, Estimating and Costing, Site Supervision and Building Science.</p> <p>Stage II: Building Construction II, Building Quantities and Account Procedures, Surveying & Levelling, Structural Engineering and Site Management.</p>

Stage III:

Building Construction III, Building Quantities, Site Surveying and Setting-out, Building Services, Building Materials, Safety Legislation, Elements of Building Law and Human Resource Management.

Award Craft Based Technician Certificate in Building
(Dublin Institute of Technology)

Course fee *First Year* £330
Second and Third Year £230

B121 CARPENTRY AND JOINERY—ADVANCED

This course is designed to assist senior apprentices and craftsmen in preparing for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificate of the City & Guilds of London Institute.

Duration One year, two evenings per week.

Subjects Trade Theory, Trade Practice & Drawing.

Entry Requirements Prospective students must have passed the Junior Trade Certificate Examination in Carpentry and Joinery.

Course fee £330

B122A WOODCUTTING MACHINISTS

This course is designed to give students an appreciation of the practical use of woodcutting machines to Junior Trade Certificate standard of the Department of Education. Prospective students must be employed in a timber related trade. The course duration is one evening per week over one year.

Course fee £330

B122B**WOOD CUTTING MACHINISTS - CNC**

This course is designed to update the skills of Woodcutting Machinists in modern machining techniques including the use of a Computer based Numerically Controlled Router.

Course fee £100 for 10 weeks

B123**SHORT COURSES IN WELDING PROCESSES-
UPDATING OF SKILLS**

Short courses in various aspects of Welding may be held during the session in response to demands from industry. Enquiries should be directed to the Department of Metal Fabrication.

B123A**METAL ARC AND OXY-ACETYLENE WELDING**

This course is designed to meet the needs of craftspersons and senior apprentices employed in the engineering and allied industries. The course covers manual metal arc and oxy-acetylene welding to EN287 and BS4872 standards on low-carbon steel plates and pipes.

Entrance Requirements: Employed in one of the engineering or allied trades.

Duration: One evening per week (7.00pm to 10.00pm) from September to Easter.

Course of Study Practical manual metal arc and oxy-acetylene welding on low-carbon steel plate and pipe.

Course fee £230



B123B

GAS SHIELDED ARC WELDING

This course is designed to meet the needs of craftspersons and senior apprentices in Engineering and Allied industries in metal arc gas shielded and Tungsten arc gas shielded welding to Asme IX, EN287 and BS4872 tests on stainless steel, low-carbon steel and aluminium.

Entrance Requirements Employed in one of the engineering or allied trades.

Duration One evening per week (7.00pm to 10.00pm) from September to Easter.

Course of Study Practical metal arc gas shielded welding on low-carbon steel and Tungsten arc gas shielded welding on aluminium and stainless steel.

Course fee £230

B123C

M.M.A. ADVANCED PLATE AND PIPE WELDING

This course is designed to meet the needs of craftspersons and senior apprentices in engineering or allied trades in manual metal arc welding to Asme IX, EN287 and BS 4872 tests on low-carbon steel plate and pipe.

Entrance Requirements Employed in one of the engineering or allied trades.

Duration One evening per week (7.00pm to 10.00pm) from September to Easter.

Course of Study Practical manual metal arc welding on low-carbon steel plate and pipe.

Course fee £230

B123D

PIPE FABRICATION

This course is designed to meet the needs of craftspersons and senior apprentices in pipe fabrication and is suitable to those employed in the following areas: pipe fitting, welding, sheetmetal work, metal fabrication.

Entrance Requirements Employed in an engineering or allied trade area.



Duration One evening per week from 7.00pm to 10.00pm for 20 weeks, beginning September/October.

Course of Study Theory-drawing and practical work on all types of pipe fabrications.

Course fee £230

B123E

LIGHT GAUGE FABRICATION

This course has been designed to meet the needs of people in the engineering and allied industries who wish to gain an understanding and appreciation of the methods of working and joining metals such as copper, low-carbon steel, aluminium and brass.

Entrance Requirements Employed in the engineering or allied industries.

Duration One evening per week from 7.00pm to 10.00pm for 20 weeks, beginning September/October.

Course of Study This course will cover repousse work, hollowing, planishing, raising, metal shrinking/stretching, decorating and double curvature work, moulding, mechanical and thermal joining processes.

Course fee £230

B123F

WELDING REPAIR AND MAINTENANCE

This course is designed to meet the needs of persons in the areas of repair and maintenance welding for the engineering industry. The materials used will be low-carbon steel, stainless steel, aluminium, copper, brass and cast iron joined by the manual metal arc, M.I.G./M.A.G., T.I.G. and oxy-acetylene welding processes.

Entrance Requirements Employed in the engineering or allied industry with some knowledge and experience of welding.

Duration One evening per week (7.00pm to 10.00pm) from September to Easter.

Course of Study Theory of and the practical methods used to repair low-carbon steel, stainless steel, aluminium, copper, brass and cast iron materials.

Course fee £230

B125B

ART METAL CASTING

Objective	To introduce Artists and Sculptors and others involved in making statuary and Objets d'Art, to good design practice and the principles involved in casting in Brass, Bronze and Aluminium.
Duration	One evening per week for 8 weeks or other suitable arrangements.
Entrance Requirements	Appropriate to those involved in Artistic Work.
Course fee	£100

B129A

SHEET METAL WORK

This course is designed to assist Craftsmen to prepare for the Senior Trade Certificate Examinations of the Department of Education or the City and Guilds of London.

Duration	One year, two evenings per week.
Subjects	Trade Theory & Drawing.
Entry Requirements	Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.
Course fee	£330

B129B

SHEET METAL WORK—UPDATING OF SKILLS

This course is designed for the Sheetmetal work crafts person who require to update their practical skills.

Duration	Ten weeks, meeting on two evenings per week, Monday and Tuesday 7.00 p.m. to 9.30 p.m.
Course Content	The use of numerical controlled Press Brake and Modern Welding Processes as applied to the Sheet Metal Industry.
Entrance: Requirements	Employment in the Sheet Metal Industry.
Course fee	£100

B130

METAL FABRICATION

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education or City and Guilds of London.

Duration	One year, two evenings per week.
Subjects	Trade Theory & Drawing.
Entry Requirements:	Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.
Course fee	£330

B131

PLUMBING

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

Duration	One year, two evenings per week.
Subjects	Trade Theory & Drawing.
Entry Requirements	Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.
Course fee	£330

B132

CRAFT TECHNICIAN CERTIFICATE COURSE IN PLUMBING

This three-year course of study has been designed to prepare craftspersons as craft technicians in Plumbing. Attendance is on three evenings per week (or alternatively on one day and one evening per week).

Course of Study	<p>Stage I: Hot and Cold Water Systems, Gas Installations, Sanitation and Drainage, Mathematics, Science, Drawing and Design.</p> <p>Stage II: Mathematics, Science, Mechanics of Fluids, Heating Technology, Drawing and Design.</p> <p>Stage III: Origination and Management Techniques, Estimating and Quantities, Heating Technology, Welding Technology, Design Project.</p>
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Entry Requirements

Prospective students must have completed at least three years of an appropriate craft apprenticeship and have successfully completed the Senior Stage of the Department of Education Craft Certificate Examination (Written and Practical) with endorsement where such is offered.

At the end of each stage, students will be required to be successful in a College examination in each subject before proceeding to the next stage. A DIT Craft Technician Certificate will be awarded to students who pass the final (Stage III) examination in all subjects. Students who are successful in the final examination may apply for corporate membership of the Institute of Plumbing and are also eligible for the Engineering Technician status of the Engineering Council.

Course fee £330

B133 TENDERING AND ESTIMATING PRACTICE (MECHANICAL SERVICES INDUSTRY)

Duration One year - one evening per week.

Subjects Tendering Procedures, Tender Documents, Contracts, Take-Off Practice, Pricing Folder, Labour Rates, Bill of Quantities, Material and Labour Schedules. Presentation of Tender and Estimating Project .

Entry Requirements Department of Education Senior Trade Certificate.

Course fee £230

B134 HEATING AND PLUMBING MERCHANTS / PROVIDERS COURSE

Duration One year - one evening per week.

Subjects Hot and Cold Water Systems, Heating Systems, Drainage and Sanitation.

Entry Requirements Employed in the Industry.

Course fee £230

B135

DOMESTIC HEATING ENGINEERS COURSE

This course is intended for persons employed in the heating industry and will provide a broad technical education and understanding of the principles and techniques involved in heat engineering. The course is run in conjunction with the Institute of Domestic Heating Engineers. Applications for admission to the course should in the first instance be addressed to:

*The Institute of Domestic Heating Engineers
15 Summerfield, Old Bawn, Tallaght, Dublin 24.*

Entry Requirements Department of Education Senior Trade Certificate in Plumbing and be employed in the industry.

Duration Two years, two evenings per week, Monday and Tuesday

Subjects Heating Technology; Gas Technology; Management Techniques; Tendering and Estimating; Mechanical Services Drafting

B136

CRAFT TECHNICIANS CERTIFICATE IN GAS TECHNOLOGY

Students employed in the Gas and Mechanical Services industry are prepared for the D.I.T. Gas Technician Certificate.

Entry Requirements Department of Education Senior Trades Certificate or, equivalent.

Subjects Year 1: Mathematics, Science, Drawing, Heating and Hot Water Technology, Construction Technology.
Year 2: Heating Technology, Gas Distribution, Gas Utilisation, Drawing, Computers.
Year 3: Management, Gas Distribution, Gas Utilisation, Computer Aided Design.

Course fee £330

B137

EFFICIENT ENERGY PRACTICE

This course has been specifically designed to provide a means of meeting the demand for efficient operation and control of heating and energy using existing processes and installations. It will provide an understanding of several different skills and disciplines required in the control and management of energy.

Entry Requirements	Suitable employment in Engineering, Construction or Building Management.
Duration	One year, one evening per week - September to Easter.
Course fee	£230

B300 BUILDING MAINTENANCE (MODULAR)

The course is designed to prepare students for corporate membership of the Institute of Maintenance and Building Management and to equip them with additional skills for employment and career development.

Entrance Requirements	(a) Employment in the Construction/Maintenance Industry (b) Interview
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Course of Study This is a part-time modular course which offers programmes at Certificate and Diploma levels. The purpose of the Certificate Programme is to re-introduce students to a course of study at a speed and level which meets their needs and to provide a pre-entry qualification for the Diploma programme.

Certificate Level Programme Modules include Corrective and Preventative Maintenance, Finance and Costing (two modules), Communication Techniques, Health, Safety and Welfare at Work, Law of Contract.

Diploma Level Programme Modules include Maintenance of Buildings, Planning and Management, Personnel and Industrial Relations, Finance and Costings, Legal and Contractual Responsibilities, Marketing and Sales, Improved Methods of Materials Support.

Services Classes are held in the evening from 6 - 9 pm and average 36 hours per module. A Continuing Professional Development (CPD) Certificate will be awarded to students who successfully complete individual modules.

Course fee £140 per module

B138	ENGINEERING QUALITY ASSURANCE
	This course provides a background for those who have responsibility for setting specifications for performance in manufacture or service industry and techniques for measuring their achievement.

Objective The City & Guilds of London Institute Parts I & II, 743 Quality Control Certificate.

Duration One year.

Entrance Qualifications Craft, Technician, Engineering and Management personnel with suitable background and experience.

Course fee £230

B139 QUALITY ASSURANCE MANAGEMENT

This programme provides further study for those who have completed the City & Guilds 7430 Parts 1 and 2 Certificate and defines the role of management in the supervision of Quality Assurance Principles and Techniques. Particular emphasis will be placed on the Irish market while generally considering new legislation and E.U. directives. Certification is by the Irish Quality Association.

Entry Requirement: City & Guilds Certificate 7430 Parts 1 and 2. Applications will also be considered from candidates employed in the area with relevant experience.

Course Duration One evening per week for the full session.

Course Content Quality Legislation and EU Directives; Financial Consideration of Quality; Quality Documentation; Quality Assurance; Practical Problem Solving Techniques and Applications; Case Studies and Site Visits.

Course fee £230

**B140****ENGINEERING SYSTEMS MAINTENANCE**

This course is designed for apprentices, craftpersons and craft based technicians who already have or wish to acquire a competence in General Maintenance Technology and Practice.

Objective

City & Guilds of London Institute Part 11- 2140 Certificate in Engineering Systems Maintenance.

Candidates who successfully complete each element will be issued with a record of achievement and will qualify for the Certificate when they have passed the two core subjects and any three of the optional subjects.

Core Subjects

General Maintenance Technology. Maintenance Organisation.

Optional Subjects

Pneumatics, Hydraulics, Mechanical Power Transmissions, Electrical Systems, Machine Tool Systems Part 3, Plant Installation and Commissioning Part 3.

Duration

Each subject will involve attendance of between 1.5 and 3 hours per week.

Course fee

£230

B141**COMPUTER-AIDED ENGINEERING**

A series of short courses for those requiring an understanding of new engineering technologies and their implications - City and Guilds 2302 scheme.

B141A

Basic NC/CNC

B141B

Basic CAD/CAM.

B141C

Basic Robotics

Course Duration

10 weeks—one evening per week or an alternate daytime arrangement, depending on demand.

Entry Requirements

Applicants should have a suitable engineering background as craftsmen, technicians or other technical positions.

Course fee

£100

**B141D****NC/CNC MACHINE SETTING AND OPERATION**

This is a one-year course to prepare mechanical engineering craftpersons for the City & Guilds 2303 Level III Certificate. It provides an introduction to CNC machines and their programming.

Course fee

£230

B141E**NC/CNC—PART PROGRAMMING**

The City & Guilds of London Institute 2303 Level III Certificate.

Course Content

Simple operating principles of Numerical Control, Data Storage and Transmission Media, the NC Machine-Axis, and the purpose of a machine datum, the principle of co-ordinate dimensioning, pre Planning for Part Programming, part Programming.

Course Duration

One year (one evening per week).

Entry Requirements

City and Guilds of London Institute 2303 Certificate (E141A).

Course fee

£230

B141 F**NC/CNC—ADVANCED PART PROGRAMMING**

The City & Guilds of London Institute 2304 Level IV Certificate.

Course Content

Planning programming procedures, the efficient use of canned cycles, sub-routines and other facilities on a number of CNC machines, develop programmes using CAD/CAM Packages, consider the implications of Computer-Aided Manufacturing in Industry, produce working parts on CNC Milling, Turning and Wire Eroding Machines.

Course Duration

One year (one evening per week).

Entrance Requirements

City & Guilds of London Institute 2303 Level III Certificate.

Course fee

£230



B142	ENGINEERING CRAFT STUDIES-INSPECTION
Objective	The City & Guilds of London Institute Mechanical Engineering Craft Studies Certificate 2050, Part II and Part III. This course combines both the theoretical and practical aspects, making use of a well equipped metrology laboratory.
Course Duration	Two years (2 evenings per week)
Entry Requirements	Craft apprenticeship, technician or other engineering qualifications.
Course fee	£330

B150	FLIGHT OPERATION OFFICER (DISPATCHER COURSE)
	This course provides instruction for flight operations officers in all operational aspects related to the preparation for commercial flights and the ground monitoring of all flights from a safety and efficiency viewpoint from the ground. It includes flight planning, aircraft loading, flight watch and operational considerations such as weight and runway limitations for the aircraft performance, weather, and ATC procedures.
	The course follows the guidelines of ICAO standardised course 201
Duration	Two years, two evenings per week.
Entrance Requirements	A general knowledge of aviation appropriate to personnel employed in airlines or associated operations.
Course fee	£330

B151	PRODUCTION PLANNING COURSE (I.A.T.A.)
	This course provides instruction for personnel employed in the Planning Departments of the Aeronautical Industry. The course covers Aircraft Organisation and Practice, and Aircraft Operational and Maintenance Planning.



Entrance Requirements	Personnel employed in Planning Departments in the Industry and holders of Part II Examinations of the City & Guilds of London Institute Certificate Course (2580).
Duration	1 year, 2 evenings per week.
Course fee	£330

B152	MAINTENANCE ENGINEERS' LICENCES OF THE DEPARTMENT OF TOURISM & TRANSPORT
B152A	'A' LICENCE—B.A.C.1-11 AC LICENCE
B152B	F27 MARK 050 AND P & W 125 ENGINE
B152C	'A' LICENCE—B737
B152D	'A' LICENCE—B747
B152E	'A' LICENCE—B727
B152G	'C' LICENCE—P & W JT8D
B152H	'C' LICENCE—P & W JT9D
B152J	'C' LICENCE—ROLLS ROYCE SPEY
B152M	'X' LICENCE—INSTRUMENTS
B152N	'X' LICENCE—ELECTRICAL
B152P	'X' LICENCE—RADIO
B152Q	'X' LICENCE—RADIO (RADAR ENDORSEMENT)
B152K	SHORTS 360 AIRCRAFT AND PT6 ENGINE
B152R	'X' LICENCES—AVIONICS
B152S	B 737 CFM 56-3 ENGINE.
B152T	B737—200/300 DIFFERENCES COURSE.
B1 52U	B737—400/500 DIFFERENCES COURSE.
B152V	B767—300 AIR FRAME

	The above courses provide instruction for Aircraft Maintenance Engineers wishing to take the appropriate licence examination of the Department of Tourism & Transport The courses are of one year duration requiring attendance on two evenings per week.
Entrance Requirements	Basic Aeronautical Engineering Certificate in appropriate Category.
Duration	One year, one or two evenings per week.
Course fee	£230

B153**JET ENGINE OVERHAUL PROCEDURES**

This course provides instruction in Jet Engine design and overhaul procedures.

Entrance Requirements Employment in the Industry.

Duration 1 year, 1 evening per week

Course fee £230

B154**AERONAUTICAL ENGINEERING CRAFT STUDIES****Stage 1**

This is a one year course requiring attendance for two evenings (6 hours) weekly per session. The course is designed to prepare students for Part I of the City and Guilds of London Institute Examinations in Aeronautical Engineering Industry

Entrance Requirements Junior or Intermediate Certificate and be employed in the Aeronautical Engineering Industry.

Stage 2 (Mechanical)

This one year course is designed to prepare students for Part II of the City & Guilds of London Examinations in Aeronautical Engineering Craft Studies (Course No. 2080). Classes are held on three evenings per week from October to May

Entrance Requirements Part II City & Guilds Aero Engineering Craft Studies or Aeronautical Engineering Occupational Competences.

Course fee
 First Year £330
 Second Year £230

B155

BASIC AERONAUTICAL ENGINEERING CERTIFICATES
 AIRFRAMES PRESSURISED (B.A.E.C.2)
 PISTON ENGINES (B.A.E.C.3)
 TURBO—PROP & TURBO—JET ENGINES (B.A.E.C.4)
 HELICOPTERS (LESS ENGINES) (B.A.E.C.5)
 ELECTRICAL (B.A.E.C.6)
 RADIO (B.A.E.C.7)
 INSTRUMENTS (B.A.E.C.8)
 AVIONICS (BAEC 9)
 INSPECTION & REPAIR OF METAL AND COMPOSITES AIRCRAFT STRUCTURES BAEC 10

The above courses are one year duration, requiring attendance for two evenings (6 hours weekly per session) The courses are designed to prepare students for the Basic Aeronautical Engineering Certificate examinations of the Department of Tourism & Transport.

Entrance Requirements Not less than two years employment in the Aeronautical Engineering Industry.

Course fee £230

B156A**PRIVATE AIRCRAFT PILOT'S LICENCE**

This course provides instruction in Meteorology, Navigation, Air Legislation, Theory of Flight and Aircraft Limitations, for personnel wishing to take the Department of Tourism & Transport Private Pilots Licence.

Duration of Course 1 year, one evening per week

Course fee £230

B156B**PRIVATE PILOTS LICENCE (INSTRUMENT RATING)**

This course provides instruction for personnel who already hold a Private Licence and wish to take the Department of Tourism and Transport Private Licence Instrument Rating.

Course Duration 1 year, 1 evening per week.

Course fee £230

B165**MOTOR CYCLE MECHANICS**

Objective	The City & Guilds of London Institute Craft Certificate 3890.
Course Duration	2 years of 30 weeks each year, 2 evenings (6 hours) each week.
Subjects	Motor Cycle Technology, Electricity, Electronics, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, General Studies.
Entrance Requirements	Employment as a motor cycle mechanic.
Course fee	£330

B170**MOTOR VEHICLE PARTS PERSONNEL**

Objective	The City & Guilds of London Institute 3840, Vehicle Parts Personnel, Part 1.
Course fee	£330

B173A**MOTOR VEHICLE CRAFT STUDIES—
DIAGNOSTIC TECHNIQUES**

Objective	The City & Guilds of London Institute 3810 Part III.
Course Duration	Four years, 30 weeks each year.
Attendance	Three evenings (9 hours) each week.
Subjects	Diagnostic Techniques (engine), Diagnostic Techniques (transmission), Automatic Gearboxes.
Entrance Qualifications	City & Guilds of London Institute 3810 Part II or equivalent.
Course fee	£330

B173B**MOTOR VEHICLE CRAFT STUDIES-
COMPRESSED AIR SYSTEMS;
C.I. ENGINES; FUEL INJECTION EQUIPMENT**

Objective	The City & Guilds of London Institute 3810 Part III.
Course Duration	One year of 30 weeks.
Attendance	Three evenings (9 hours) each week.
Subjects	Compressed Air Brakes, Compression Ignition Engines, Fuel Injection Equipment, C.I. Engines.
Entrance Qualifications	City & Guilds of London Institute 3810 Part II or equivalent.
Course fee	£330

B173C**MOTOR VEHICLE CRAFT STUDIES-
ELECTRICITY/ ELECTRONICS**

Objective	The City & Guilds of London Institute 3810 Part III.
Course Duration	One year of 30 weeks.
Attendance	Three evenings (9 hours) each week.
Subjects	Motor Vehicle Electricity and Motor Vehicle Electronics.
Entrance Qualifications	City & Guilds of London Institute 3810 Part II or equivalent.
Course fee	£230

B174**AUTO-ENGINEERING TECHNICIANS**

Objective	Department of Education Advanced Motor Car Engineering Technological Certificate and the City & Guilds of London Institute Motor Vehicle Technicians Full Technological Certificate (3900), Parts II and III.
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Course Duration	1 year part-time (7 hours) and 2 evenings (6 hours) each week for 38 weeks.
Subjects	Motor Car Engineering, Automobile Electricity/Electronics, Heat Engines, Applied Mechanics, Garage Organisation and Management and Computer Studies.
Entrance Qualifications	Department of Education Senior Trade Certificate with endorsement subjects and Department of Education Intermediate Motor Car Engineering Technological Certificate (2 subjects) or the City & Guilds of London Institute 3900, Part 1.
Course fee	£330

B176 AUTOMOBILE ENGINEERING UPDATING COURSES—CONTINUING EDUCATION PROGRAMME

Objective	Updating of trade personnel in modern developments relating to engines, transmission systems and electronics.
Course Duration	Two days to a few weeks—day and/or evening.
Entry Requirements	Senior Trade Certificate in Motor Engineering.

B177 TECHNOLOGICAL CERTIFICATE IN AUTOMOBILE ENGINEERING

Objective	Department of Education Elementary, Intermediate and Advanced Technological Certificates in Motor Car Engineering.				
Course Duration	5 years of 30 weeks each year, 4 evenings (12 hours) each week.				
Subjects	Motor Car Engineering, Engineering Science and Mathematics, Automobile Electricity, Engineering Laboratory, General Studies including English, Drawing and Sketching, Garage Organisation and Management.				
Entrance Requirements	Junior or Intermediate Certificate with Honours in certain specified subjects.				
Course fee	<table border="0"> <tr> <td>First Year</td> <td>£330</td> </tr> <tr> <td>Second & Third Year</td> <td>£230</td> </tr> </table>	First Year	£330	Second & Third Year	£230
First Year	£330				
Second & Third Year	£230				



B178A MOTOR INDUSTRY MANAGEMENT CERTIFICATE

This three year course prepares students for membership examinations of the Institute of the Motor Industry.					
Subjects	Motor Industry Management, Motor Industry Law, Motor Industry Administration and Organisation, Accountancy, Computer Studies.				
Entrance Requirements	Leaving Certificate or equivalent qualification. Exemptions to stages of the course may be available to suitably qualified candidates.				
Course fee	<table border="0"> <tr> <td><i>First Year</i></td> <td>£330</td> </tr> <tr> <td><i>Second Year</i></td> <td>£230</td> </tr> </table>	<i>First Year</i>	£330	<i>Second Year</i>	£230
<i>First Year</i>	£330				
<i>Second Year</i>	£230				

B178B MOTOR INDUSTRY MANAGEMENT HIGHER CERTIFICATE

This one-year course prepares students for the Higher Certificate of Management of the Institute of the Motor Industry.	
Subjects	Management, Legislation, Accountancy, Organisation and administration.
Entrance Requirements	IMI Certificate of Management.
Course fee	£230

B179 ROAD TRANSPORT STUDIES

This three year course prepares students for the membership examinations of the Institute of Road Transport Engineers and Certificate of Professional Competence of the Department of the Environment.	
Subjects	Management Supervision and Practice, Financial and Commercial Aspects, Workshop Organisation and Administration, Legal Aspects of Motor Trade and Transport Legislation - Technical and Administrative, Transport Operational Principles, Computer Studies.

Entrance
Requirements

The Leaving Certificate or equivalent qualifications. Exemptions from stages of the course may be available to suitably qualified candidates.

Course fee £230

B180 BOOK AND ARCHIVE RESTORATION

The purpose of this one year course is to train students in the repair and presentation of books, documents, etc. It is of particular value to the staffs of hand binderies, local record offices and those libraries concerned with the care of manuscripts and archives. Attendance is required on one evening per week. Students will be required to provide some of the materials used.

Course fee £230

B182 PRINT FINISHING

This one year course covers techniques and materials used in the production of books, magazines, and a wide range of miscellaneous work handled in the print finishing department. Stress is laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, glueing and mounting.

Course fee £230

B183 INTRODUCTION TO PRINTING TECHNOLOGY

A one year course to prepare students for the Introduction to Printing Technology P.E.I./B.P.I.F. examinations to be accepted as a candidate for the following:-

- (a) Estimating examination of the British Printing Industries Federation.
- (b) Printing Office Procedure examination of the British Printing Industries Federation.

Course fee £230

B184

COST ACCOUNTANCY FOR PRINTERS

A one year course designed to prepare students for the examinations of the British Printing Industries Federation.

Entrance
Qualifications

Royal Society of Arts Certificate in Accounting and Office Procedure, or equivalent.

Course fee £230

B185 ESTIMATING FOR PRINTERS

A one year course designed to prepare students for the examination of the British Printing Industries Federation.

Entrance
Qualifications

Leaving Certificate and Introduction to Printing Technology of the British Printing Industries Federation or equivalent.

Course fee £230

B186 PAPER TECHNOLOGY

A two-year course for personnel employed in Printing, Paper and Packaging Industries. Students are prepared for the examination of the Institute of Paper.

Entrance
Qualifications

Leaving Certificate or equivalent.

Course fee £230

B187 DESIGN FOR PRINT

This is a two year course to give students knowledge/skills in the following subject areas: Basic Design, Copy Preparation, Typographic Design, Printing Processes, Book and Magazine Layout, Advertising Design, Packaging Design, Graphic Design.

Entrance
Qualifications

Leaving Certificate or Department of Education Senior Certificate in a graphic arts subject or other equivalent qualification.



Course fee	First Year	£330
	Second Year	£230

B188 INTRODUCTION TO MANAGMENT (GRAPHIC INDUSTRIES)

Course Duration A one year course to prepare students for the City & Guilds of London Institute Certificate in Introduction to Management (Graphic Industries).

Entrance Qualifications Department of Education Senior Trade Certificate in a Printing discipline or an equivalent qualification.

Course fee £230

B191 BOOKBINDING AND PRINT FINISHING RETRAINING

This one year evening course for personnel employed in the Printing Industry provides instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.

Course fee £230

B192 LITHOGRAPHY AND PHOTO-LITHOGRAPHY RETRAINING

This one year course for personnel employed in the Printing Industry provides instruction in the latest techniques of lithographic plate making and press operation.

Course fee £230

B193 ADVANCED LITHOGRAPHIC PRINTING AND PLATEMAKING

Aims of course To train students in advanced Lithographic Press Operation.



Entrance Requirements Full apprenticeship and / or employment in the industry

Course Duration One year, three hours per week

Course content Lithographic Press Operations, setting of feeders, delivery, inking and damping units. Single and multiple units. Platemaking techniques: Impositions and planning. Inks and ink mixing. Process colour, Perfecting and C.P.C.

Course fee £230

B197 DESK TOP PUBLISHING

This course is for personnel requiring training in Desk Top Publishing. Design is an important feature of the course. A second year course may be available for those wishing to pursue computer aided design.

Course fee £330

B200 SCREEN PRINTING

This is a one year course which covers the following topics: Screen Preparation, Printing Techniques, (manual/semi-auto) Single and Multi Colour Work, Materials and Substrates.

Course fee £230

The information contained in this booklet is intended as a guide for persons seeking admission to the Institute and is not intended as an element of a contract between the Institute and the student or his/her employer or sponsor. The Institute reserves the right to change or modify any of the courses or the information without prior notice. Applicants are advised to check the details of any course before enrolling for it.



DUBLIN INSTITUTE of TECHNOLOGY

Institiúid Teicneolaíochta Bhaile Átha Cliath

- 1 DIT Mountjoy Sq, Dublin 1**
Tel: 01-836 3000 Fax: 01-874 0505
- 2 DIT Bolton St, Dublin 1**
Tel: 01-872 7177 Fax: 01-872 7879
- 3 DIT Cathal Brugha St, Dublin 1**
Tel: 01-874 7886 Fax: 01-874 3634
- 4 DIT Aungier St, Dublin 2**
Tel: 01-478 5252 Fax: 01-478 5261
- 5 DIT Kevin St, Dublin 8**
Tel: 01-475 7541 Fax: 01-478 0282
- 6 Dublin Institute of Technology**
Fitzwilliam House,
30 Upper Pembroke St,
Dublin 2, Ireland
Tel: +353-1-661 1688
Fax: +353-1-661 1696
- 7 DIT Adelaide Rd, Dublin 2**
Tel: 01-478 4788
Fax: 01-478 4738

