

1936

Day Technical: Prospectus of Courses Session 1936-37

City of Dublin Vocational Education Committee

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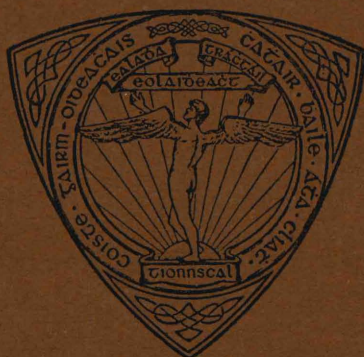
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City of Dublin
Vocational Education Committee

scoileanna ceárd-oideachais
City of Dublin Technical Schools

Seirniún
1936-37



Session
1936-37

PROSPECTUS
OF
DAY TECHNICAL COURSES
BOLTON STREET :: :: KEVIN STREET
RINGSEND

1936.	
SEPT. 7, MONDAY	Whole-time Day Schools open for enrolment. Day Apprentice School resumes work.
SEPT. 14, MONDAY	Whole-time Day Schools commence work and Part-time Day Classes open for enrolment.
SEPT. 21, MONDAY	Evening Classes open for enrolment and Part-time Day Classes commence work.
SEPT. 28, MONDAY	Evening Classes commence work.
NOV. 1, SUNDAY	<i>All Saints' Day.</i>
DEC. 8, TUESDAY	<i>Feast of Immaculate Conception.</i> Whole-time Day Schools—excepting Day Apprentice School and Special Classes—closed.
DEC. 12, SATURDAY	Teaching work in Whole-time Day Schools ceases (excepting Day Apprentice School and Special Classes).
DEC. 14, MONDAY	Term Examinations in Whole-time Day Schools commence.
DEC. 18, FRIDAY	Schools close for Christmas Vacation.
1937.	
JAN. 4, MONDAY	All Classes resume work after Christmas Vacation.
JAN. 6, WEDNESDAY	<i>Feast of Epiphany.</i> Whole-time Day Schools—excepting Day Apprentice School and Special Classes—closed.
MAR. 5, FRIDAY	Land Surveying and Levelling Course begins.
MAR. 17, WEDNESDAY	<i>St. Patrick's Day.</i> Schools closed.
MAR. 20, SATURDAY	Land Surveying Field Work begins. Motor Car Driving Lessons begin.
MAR. 23, TUESDAY	Last meeting of classes before Easter Vacation.
MAR. 31, WEDNESDAY	All classes resume work after Easter Vacation.
MAY 1, SATURDAY	Evening Classes close—excepting Special classes.
MAY 3, MONDAY	Evening Written Sessional Examinations commence (except for Special classes).
MAY 6, THURSDAY	<i>Ascension Day.</i> Whole-time Day Schools—excepting Day Apprentice School and Special Classes—closed.
MAY 17, MONDAY	<i>Whit-Monday.</i> Schools closed.
MAY 27, THURSDAY	<i>Feast of Corpus Christi.</i> Whole-time Day Schools—excepting Day Apprentice School and Special classes—closed.
JUNE 26, SATURDAY	Teaching work ceases in Whole-time Day Schools—excepting Day Apprentice School and Special classes.
JUNE 28, MONDAY	Sessional Examinations commence in Whole-time Day Schools—excepting Day Apprentice School and Special classes.
JUNE 29, TUESDAY	<i>Feast of Saints Peter and Paul.</i> Whole-time Day Schools—excepting Day Apprentice School and Special classes—closed.
JULY 3, SATURDAY	Whole-time Day Schools and Part-time Domestic Economy classes close—excepting Day Apprentice School and Special classes.
JULY 17, SATURDAY	Day Apprentice School and Special classes close.

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 BOLTON STREET,
 DUBLIN.

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 Chief Executive Officer.

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For triennial period 1934-37

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Subjects and approximate number of hours per week :—

	FIRST YEAR.	SECOND YEAR.
Workshops and Garage	11 hours.	13 hours.
Motor Car Engineering Lectures	2 "	2 "
Mechanics	3 "	3 "
Machine Drawing	2 "	2 "
Geometry	2 "	— "
Science	4 "	4 "
Mathematics	2 "	2 "
English and Business Methods	2 "	1 "
Irish	2 "	1 "
Electricity	— "	2 "
Total	30 "	30 "

Special Short Courses

MOTOR CAR DRIVING AND MANAGEMENT.

(BOLTON STREET AND RINGSEND).

During the Session a limited series of lessons will be arranged on Saturday afternoons between 2.30 and 6.0 o'clock, or on other suitable afternoons, in Motor Car Driving, practical management and cleaning. The series will comprise eight complete lessons. A certificate of ability to drive the particular instruction car or cars of the Schools will be given, on the advice of the Instructor, to those students who satisfy the tests prescribed.

Admission to the lessons is reserved for students of seventeen years of age or upwards who are in regular attendance at the classes of one of the Motor Car Engineering Day or Evening Courses. The formation of the classes will be duly notified to intending applicants for instruction.

Students are required to provide their own licences, and to have them in their possession at each lesson.

Fee for Course, £2.

COURSES FOR MOTOR CAR DRIVERS.

(RINGSEND).

A series of short intensive Courses are arranged during the Session for the needs of motor car drivers desirous of acquiring a direct practical knowledge of motor car mechanism, the detection of common faults, ordinary car adjustments and running repairs. The Courses will consist of not less than six lessons, each of one hour's duration, and the hours of instruction will be arranged, as far as possible, to suit the convenience of applicants.

Fee for each Course, £2.

TECHNICAL INSTITUTE, KEVIN STREET

School of Wireless Telegraphy

EQUIPMENT.

The School is fully equipped with up-to-date Wireless Apparatus, including a standard $1\frac{1}{2}$ K.W., 1929 Quenched Spark Transmitter, a $1\frac{1}{2}$ K.W. I.C.W. and C.W. Transmitter, a $\frac{1}{4}$ K.W. Emergency Transmitter (lifeboat set), latest type valve receiver, and complete direction finding apparatus. Students have spacious rooms for Morse Practice and the use of fully-equipped Electrical and Physical Laboratories.

INSTRUCTION.

The Course of Training is arranged to prepare students in the shortest possible time for the Examination of Proficiency in Radiotelegraphy. The instruction consists of Lectures and Practical Work in Technical Electricity, Technical Wireless Telegraphy, and Telephony and Direction Finding, with practice on the $1\frac{1}{2}$ K.W. Sets and other apparatus specified above, Morse training (traffic practice), instruction in the Handbook for Wireless Operators (Rules and Regulations), and Typewriting.

Students of the Day Course attend each day from 10—2 and 2—4.

FEES.

The Fees, which cover tuition in all subjects up to obtaining the P.M.C. Certificate of Proficiency, are payable in advance, and are as follows :—

Course—First-class Certificate	£12 0 0
Second-class „	10 0 0

Students may arrange to take, with the approval of the Principal, any special course in the Evening programme.

ADMISSION.

Students are expected to have a good general education, with special attention to Handwriting and Spelling, Geography, Arithmetic and Algebra.

SCHOOL SESSION.

The School of Wireless Telegraphy is conducted independently of the other classes in the Technical Schools, and is open all the year, with the usual holidays at Christmas, Easter, and Summer. Students are admitted at all periods. The usual time taken to train for Examination is about twelve months.

Time Table

SUBJECT	Day	Hour	Room	TEACHER
Electricity and Magnetism Section A. (Seniors)	Wed. Fri.	11.30-12.30 11.30-12.30	12 12	W. Fegan. E. Morton.
Electricity and Magnetism Section B. (Juniors)	Mon. Thurs.	11.30-12.30 11.30-12.30	12 12	W. Fegan. E. Morton.
Technical Radio Lecture* Section A.	Mon. Wed. Fri.	3-4 3-4 3-4	11 11 11	H. Hodgens. H. Hodgens. H. Hodgens.
Practical Radio,* Section A. (Faults, adjustments, etc.).	Tues. Thurs.	2-4 2-4	11 11	H. Hodgens. H. Hodgens.
Rules and Regulations ...	Tues.	11.30-12.30	13	H. Hodgens.
Telegraphy Practice (including handling of radio-tele- grams, etc.)	Daily	10.0-12.30 2-4	13 —	H. Hodgens. J. V. Honan.

Fortnightly examination tests will be held in all subjects.

*Direction finding theory, and practice in taking and working out bearings will be included.

SYLLABUS OF EXAMINATION FOR CERTIFICATES
OF PROFICIENCY IN RADIOTELEGRAPHY.INTERNATIONAL TELECOMMUNICATION
CONVENTION.

(1) It is necessary for persons operating wireless telegraph apparatus on board ships registered in An Saorstát which are subject to the provisions of the Merchant Shipping (Wireless Telegraphy) Act, 1919, and the Merchant Shipping (Safety and Load Line Conventions) Act, 1933, to hold either a 1st or 2nd Class Certificate of proficiency issued by the Minister for Posts and Telegraphs in accordance with Article 10 of the General Radiocommunication Regulations annexed to the International Telecommunication Convention, 1932.

The First Class Certificate states that the holder possesses the following qualifications :—

(a) Knowledge of the general principles of electricity, of the theory of radiotelegraphy and radiotelephony, and of the practical adjustment and operation of all apparatus (spark C.W., I.C.W., and D.F.) and accessory apparatus used in the ship service.

(b) Transmitting, and receiving by ear, messages in plain language at a speed of 25 words a minute, and in code groups at a speed of 20 groups a minute.

(c) Sending and receiving spoken messages clearly by telephone apparatus.

(d) A detailed knowledge of the Regulations applying to the exchange of radiotelegraph traffic, of the documents relative to the charges for radiotelegrams, and of the radiotelegraph part of the Regulations for the Safety of Life at Sea.

(e) A knowledge of the principal maritime navigation routes and of the most important wire and wireless routes of the world.

(2) In order to qualify, candidates will be required :—

(a) To send for each test on an ordinary Morse key for three consecutive minutes at not less than the prescribed speed five letters or characters counting as one word or group. The accuracy of signalling, the correct formation of the characters, and the correctness of spacing, will be taken into account.

(b) To receive Morse signals for three consecutive minutes at the prescribed speeds from a double head-gear telephone receiver ordinarily used for radiotelegraph reception, and to transcribe them legibly.

(c) To send and receive traffic by means of telephone apparatus.

(d) To have a theoretical and practical knowledge of the operation, adjustment and maintenance of spark C.W., I.C.W., and D.F. apparatus.

(e) To have a theoretical and practical knowledge of the operation, adjustment and maintenance of the accessory apparatus, such as motor-generator sets, storage batteries, etc.

(f) To have the necessary knowledge to make, with the means that would be available on board a ship, the repairs of damaged apparatus.

(g) To know the principal wire and wireless routes of the world, as indicated in the relative publications issued by the International Office of the Telegraph Union, Berne, and the principal maritime navigation routes of the world.

(3) The practical examination on the apparatus specified in Section 2 (d) above will include :—

(a) Connecting-up apparatus.

(b) Regulating and adjusting apparatus.

(c) Tracing and clearing faults.

(d) Repairing defective apparatus.

(e) Using D.F. apparatus to obtain bearings.

(f) Operating (sending and receiving).

(g) A test on commercial working, exchanging traffic as between a ship and other ship stations, and between a ship and a shore station.

(4) The theoretical examination will consist of two papers. Two hours will be allowed for the first, and three hours for the second paper. These papers will consist of comprehensive questions under the following headings :—

Magnetism, general electrical principles. Atmospheric electricity. Condensers. Primary and secondary cells. Direct, alternating and oscillatory currents. Electro-magnets. Electro-magnetic induction.

Meters. Motors, dynamos, alternators and converters. Spark, C.W. and I.C.W. transmitting installations : principles, apparatus, circuits, adjustments, maintenance. Receiving apparatus : principles, circuits, adjustments, maintenance. Emergency installations. Ether waves. Aerials. Radiotelephony, transmitting and receiving apparatus : principles, circuits, adjustments, maintenance. Direction-finding apparatus : principles, circuits, adjustments, maintenance. Auto-alarm devices : principles, adjustments, maintenance.

The standard of theoretical knowledge required from a candidate for a First Class Certificate calls for a sound grasp of the theoretical principles and of the practical methods of application thereof. The candidate's mathematical knowledge should include algebra up to simple questions, elementary graphs and the elements of trigonometry. Questions in the written tests dealing with the practical application of general principles will have reference to one or other of the commercial sets fitted in merchant ships.

(5) The examination in the Radiocommunication Regulations will be based upon the rules contained in the "Handbook for Wireless Telegraph Operators," which can be obtained through any bookseller or direct from the Stationery Office, London. These rules, subject to suitable verbal alteration where necessary, e.g., Minister for Posts and Telegraphs for Postmaster-General; The Secretary, Department of Posts and Telegraphs, Dublin, for The Secretary, General Post Office, London; Accountant, Department of Posts and Telegraphs, Dublin, for Comptroller and Accountant General, London; Irish Free State for Great Britain and Northern Ireland or United Kingdom; Irish for British, etc., will apply for the time being, in the case of ships' radiotelegraph installations licensed by the Minister for Posts and Telegraphs of the Irish Free State.

The commercial working test will include the preparation of messages for transmission; insertion of preambles, charges, routes; order of transmission; transmission and reception of messages at the prescribed speeds; log keeping; procedure signals.

(6) The Second Class Certificate states that the holder possesses the following qualifications :—

(a) An elementary theoretical and practical knowledge of electricity and radiotelegraphy, as well as knowledge of the practical

adjustment and operation of spark, C.W., and I.C.W. apparatus and accessory apparatus used in the ship service.

(b) Transmitting, and receiving by ear, messages in plain language at a speed of 20 words a minute, and code groups at a speed of 16 groups a minute.

(c) A knowledge of the Regulations applying to the exchange of radiotelegraph traffic, of the documents relative to the charges for radiotelegrams, and of the radiotelegraph part of the Regulations for the Safety of Life at Sea.

(d) A knowledge of the principal maritime navigation routes and of the most important wire and wireless routes of the world.

(7) In order to qualify, candidates will be required :—

(a) To send for each test on an ordinary Morse key for three consecutive minutes at not less than the prescribed speeds, five letters or characters counting as one word or group. The accuracy of signalling, the correct formation of the characters, and the correctness of spacing will be taken into account.

(b) To receive Morse signals for three consecutive minutes at the prescribed speeds from a double head-gear telephone receiver ordinarily used for radiotelegraph reception, and to transcribe them legibly.

(c) To have an elementary theoretical and practical knowledge of the operation, adjustment and maintenance of spark C.W. and I.C.W. installations, and their accessory apparatus, such as motor-generator sets, storage batteries, etc.

(d) To have practical knowledge sufficient for making small repairs in case of damage to the apparatus.

(e) To know the principal wire and wireless routes of the world, as indicated in the relative publications issued by the International Office of the Telegraph Union, Berne, and the principal maritime navigation routes of the world.

(8) The practical examination will include :—

(a) Operating (sending and receiving).

(b) A test in commercial working, exchanging traffic as between two stations in the mobile service.

(c) Connecting-up apparatus.

(d) Regulating and adjusting apparatus.

(e) Tracing and clearing faults.

(9) The theoretical examination will consist of one paper, for which three hours will be allowed. This paper will consist of comprehensive questions under the following headings :—

Primary and secondary cells. Direct, alternating and oscillatory currents. Meters. Motors, dynamos, alternators, and converters. Spark, C.W. and I.C.W. transmitting installations; principles, apparatus, circuits, adjustments, maintenance. Receiving apparatus : principles, circuits, adjustments, maintenance. Emergency installations. Aerials. Auto-alarm devices : principles, adjustments, maintenance.

The standard of theoretical knowledge required from a candidate for a Second Class Certificate calls for a sound grasp of the theoretical principles and of the practical methods of application thereof. The candidate's mathematical knowledge should include algebra up to simple equations, elementary graphs and the elements of trigonometry. Questions in the written tests dealing with the practical application of general principles will have references to one or other of the commercial sets fitted in merchant ships.

DAY COURSE IN BUILDING SCIENCE.

A Day Course of Instruction suitable for those who intend to enter the Offices of Architects, Builders, Civil Engineers, Quantity Surveyors and others, is conducted periodically at the Technical Institute, Bolton Street, Dublin.

The Course will cover a period of about 18 months, and will occupy about 25 hours per week.

Instruments and materials for the use of students in the classes will be provided by the Institute.

As the number attending the Course will be limited, preference will be given to those whose education and suitability appear to be most satisfactory.

Fee for Course, £3.

At any time during the progress of the Course, the Ticket of Admission may be cancelled if the student proves unsatisfactory in any respect, but especially in regard to attendance, progress and conduct.

Fees cannot be returned.

SUBJECTS AND HOURS WEEKLY.

Building Construction and Quantities	.....	.....	14 hours.
Mathematics and Mechanics	.....	.....	2 "
Practical Geometry	.....	.....	2 "
Business Methods	.....	.....	2 "
Architectural Drawing	.....	.....	2 "
Science	.....	.....	2 "
Drill	.....	.....	1 "
Land Surveying and Levelling	.....	.....	Course.

COURSE FOR CINEMA OPERATORS (Part-Time)

A Day Course for Cinema Operators, involving instruction over a minimum period of five hours per week, will be conducted in the Technical Institute, Lr. Kevin Street. Enrolment for the Course should be made in the week commencing Monday, 14th September, 1936.

SYLLABUS.

General Science : Elements of Heat, Light, Sound, Magnetism and Electricity, and Mathematics.

Technology : Thermionic Valves, Photo-electric Cells, Amplifiers, Loud Speakers; Sound-Head Equipment.

Fee, 10/-.

PAINTERS' AND DECORATORS' COURSE Afternoon Lectures and Practical Work for Painting Apprentices

BOLTON STREET INSTITUTE.

By agreement with the Master Painters' Association and the Trade Unions concerned, apprentices to the trade are allowed time off to attend afternoon classes twice weekly, as conditions permit.

JUNIOR COURSE FOR SECOND AND THIRD YEAR APPRENTICES.

SENIOR COURSE FOR FOURTH AND FIFTH YEAR APPRENTICES.

Courses similar to the above will be inaugurated in other trades in which the requisite conditions can be procured.

DAY APPRENTICE SCHOOL OF PRINTING

By agreement with the Dublin Master Printers' Association and the Dublin Typographical Society, First and Second Year trade apprentices attend a practical course in Compositors' Work and in Letterpress Printing from 8.30 a.m. to 1 p.m. on five days each week. The subjects include Compositors' Work, Letterpress Printing, Irish, English, Arithmetic and Art Drawing.

CARPENTERS' AND JOINERS' COURSE Afternoon Course in Drawing and Practical Work for Carpentry and Joinery Apprentices

BOLTON STREET INSTITUTE.

By agreement with the Dublin Master Builders' Association and the Trades Unions concerned apprentices to the trade are allowed time off to attend Afternoon Classes for six hours per week as conditions permit.

Junior Course on Mondays and Wednesdays, 2.15 p.m. to 5.15 p.m.

Senior Course on Tuesdays and Thursdays, 2.15 p.m. to 5.15 p.m.

The Courses are available to all Employers who desire to send their Apprentices, and are designed to train selected boys as efficient craftsmen, capable of doing higher class work and to enable clever boys to qualify for positions of responsibility.

The Courses begin in October each year and finish the following July.

GENERAL CURRICULUM OF THE SCHOOLS

UNDER THE CONTROL OF

THE CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE.

BOLTON STREET TECHNICAL SCHOOL

Mechanical Engineering.	Building Science.
Motor Car Engineering.	Building and Allied Trades.
Gas Engineering.	Printing and Book Production.
Metal Plate Work.	Watchmaking.
Brass Finishing.	Art and Art Crafts.
Day Apprentice and specialised Daytime Technical Courses.	
Day Junior Technical School.	

KEVIN STREET TECHNICAL INSTITUTE

Pure and Applied Mathematics.	Radio-Telegraphy.
Pure and Applied Physics.	Art and Art Crafts.
Pure and Applied Chemistry.	Domestic Science and Housecraft.
Bacteriology.	Bootmaking.
Pharmacy.	Hairdressing.
Electrical Engineering and Allied Trades.	Tailoring.

PARNELL SQUARE TECHNICAL INSTITUTE

General Commercial Subjects.	Transport.
Accountancy and Allied Subjects.	Day Trade Classes:—
Local Government.	Dressmaking.
Domestic Science and Housecraft.	Shirtmaking (Power).
Languages.	Cloth Manufacture (Power).
Retail Distribution.	Chefs' Training Course.
Day School of Commerce.	

PEMBROKE TECHNICAL INSTITUTE (Ringsend and Ballsbridge)

General Commercial Subjects.	Mechanical Engineering.
Retail Distribution.	Motor Car Engineering.
Languages.	Oxy-Acetylene Welding.
Domestic Science and Housecraft.	Building Trades.
Art and Art Crafts.	

Day School of Commerce.

Day Junior Technical School.

RATHMINES TECHNICAL INSTITUTE

General Commercial Subjects.	Banking, Finance and Foreign Exchange.
Accountancy, Auditing and Allied Subjects.	Company Secretaries.
Insurance.	Government Accountancy & Finance.
Advertising and Publicity.	Languages.
	Domestic Science and Housecraft.
Day School of Commerce.	

CHATHAM ROW SCHOOL OF MUSIC (Day and Evening Classes)

Pianoforte.	Wind Instruments (Wood & Brass).
Violoncello.	Fifes.
Uilleann and Irish War Pipes.	Viola.
Elocution.	Orchestra.
Violin.	Drums and Flute.
Singing and Choir.	Traditional Music.

