1936

Day Technical: Prospectus of Courses Session 1936-37

City of Dublin Vocational Education Committee
City of Dublin
Vocational Education Committee

Scoileanna Ceárd-Oideachais
City of Dublin Technical Schools

Session 1936-37

Prospectus
Of
Day Technical Courses
Bolton Street :: :: Kevin Street
Ringsend
CALENDAR—SESSION 1936-7

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 All Saints' Day.
DEC. 8, TUESDAY Feast of Immaculate Conception. 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 Feast of Epiphany. Whole-time Day Schools—excepting Day Apprentice School and Special Classes—closed.
MAR. 5, FRIDAY Land Surveying and Levelling Course begins.
MAR. 17, WEDNESDAY St. Patrick's Day. 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 Ascension Day. Whole-time Day Schools—excepting Day Apprentice School and Special Classes—closed.
MAY 17, MONDAY Whit-Monday. Schools closed.
MAY 27, THURSDAY Feast of Corpus Christi. 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 Feast of Saints Peter and Paul. 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.

City of Dublin Vocational Education Committee

Committee

Alderman C. Breathnach, LL.D., T.D., 384 Clontarf Road (ex-officio)
Councillor Mrs. T. Clarke, Baymount, 95 Clontarf Road.

" D. Healy, 40 Usher's Quay.
" Mrs. M. Walsh, 16 Elgin Road.
" Mrs. M. Cosgrave, 17 Park Drive, Cowper Gardens.
" P. Belton, T.D., Belfield Park, Drumcondra.
" M. O'Sullivan, L.R.C.I., 74 Ballymun Road, Glasnevin.

Miss Helena Molony, 51 Lackfield Grove, Kimmage.
Michael O'Foghludha, 5 Cabra Road.
Mr. M. P. Rowan, 52 Capel Street.
Dr. Lorcan G. Sherlock, 21 Parliament Street.
Mr. Michael Somerville, 1 O'Curry Road, South Circular Road.
Mr. W. J. Whelan, 35 Lower Gardiner Street.

Offices:
Technical Institute,
Bolton Street,
L. E. O'Carroll, B.A., B.L.,
Chief Executive Officer.

Local Sub-committees

For triennial period 1934-37

Rathmines.

Alderman C. Breathnach, LL.D., T.D., 384 Clontarf Road (ex-officio).
Mr. W. J. Whelan, 35 Lower Gardiner Street.
Dr. Conn Murphy, 10 Charleston Avenue, Rathmines.
Councillor Mrs. M. Cosgrave, 17 Park Drive, Cowper Gardens.
Mr. G. F. Klinger, A.C.A., 7 St. Helen's Road, Booterstown.
Mr. M. P. Rowan, 52 Capel Street.
Mr. W. Woods Hill, 5 Parliament Street.
Mr. M. J. O'Reilly, 31 Kenilworth Square.

Parnell Square.

Alderman C. Breathnach, LL.D., T.D., 384 Clontarf Road (ex-officio).
M. O'Foghludha, 5 Cabra Road.
Sean O'H-Uaidhaigh, 12 Dawson Street.
Liam O'Carroll, 88 Manor Street.
Miss H. Chenevix, 48 Fleet Street.
Mr. J. W. Kelly, 16 St. Joseph's Parade, Nelson Street.
Mr. Bernard Moran, 7 Talbot Street.
Local Sub-Committees—(Continued)

BOLTON STREET.

ALDERMAN C. Breathnach, LL.D., T.D., 384 Clontarf Road (ex-officio).
Mr. O. Hynes, 6 St. Kevin's Road, S.C.R.
Mr. M. P. Rowan, 52 Capel Street.
Mr. M. Somerville, 1 O'Curry Road, S.C.R.
Mr. W. J. Whelan, 35 Lower Gardiner Street.
Mr. Sean Campbell, 35 Lower Gardiner Street.
Mr. Gerald Doyle, 32 East Essex Street.
Mr. Thos. Darcy, 91 Ceannt Fort, Mount Brown.
Mr. R. Murphy, Messrs. Hopkins and Hopkins, O'Connell Street.
Mr. J. G. Wilson, 13 Sackville Place.
Mr. T. A. Crampton, Hammersmith Works, Ballsbridge.

PEMBROKE (Ballsbridge and Ringsend).

ALDERMAN C. Breathnach, LL.D., T.D., 384 Clontarf Road (ex-officio).
COUNCILLOR Mrs. M. Walsh, 16 Elgin Road.
L. G. Sherlock, LL.D., 21 Parliament Street.
Rev. J. Hooke, c.c., St. Mary's, Haddington Road.
Mr. J. J. Beggan, c/o. McEntagart Bros., Percy Place.
Professor B. F. Shields, 87 Pembroke Road.
Mr. William Hanlon, 29 Home Villas, Donnybrook.

KEVIN STREET.

ALDERMAN C. Breathnach, LL.D., T.D., 384 Clontarf Road (ex-officio).
Mr. O. Hynes, 6 St. Kevin's Road, S.C.R.
Mr. M. Somerville, 1 O'Curry Road, S.C.R.
Rev. M. Geraghty, c.c., The Presbytery, High Street.
COUNCILLOR D. D. Healy, 40 Usher's Quay.
Mr. M. P. Rowan, 52 Capel Street.
Mr. W. Kelly, 16 St. Joseph's Parade, Nelson Street.
Mr. J. Andrews, b.sc., Messrs. A. Guinness, Son and Co., James's Street.

CHATHAM ROW (School of Music).

ALDERMAN C. Breathnach, LL.D., T.D., 384 Clontarf Road.
COUNCILLOR Mrs. M. Walsh, 16 Elgin Road.
COUNCILLOR M. O'Sullivan, 74 Ballymun Road, Glasnevin.
COUNCILLOR Mrs. T. Clarke, Baymount, 95 Clontarf Road.
MADAME Kathleen Roddy, Broadcasting Station, Henry Street.
Mr. W. J. Whelan, 35 Lower Gardiner Street.
Mr. M. P. Rowan, 52 Capel Street.
Mr. J. T. Doyle, Osborne Lodge, Mount Prospect Road, Dollymount.
Mr. Thos. Murphy, 16 Cowper Road.
Mr. Jos. O'Reilly, 9 Lower Leeson Street.
L. G. Sherlock, LL.D., 21 Parliament Street.

ADVISORY COMMITTEES

MASTER JEWELLERS.
Mr. G. Thornley.
Mr. R. Murphy.
Mr. L. Beirley.
Mr. J. Sheerin.
Mr. Sleator.

MASTER TAILORS.
Mr. E. J. McWilliam.
Mr. W. O'Connor.
Mr. W. Scott.
Mr. R. Boyd.
Subjects and approximate number of hours per week:

<table>
<thead>
<tr>
<th>Subject</th>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshops and Garage</td>
<td>11 hours.</td>
<td>13 hours.</td>
</tr>
<tr>
<td>Motor Car Engineering Lectures</td>
<td>2 &quot;</td>
<td>2 &quot;</td>
</tr>
<tr>
<td>Mechanics</td>
<td>3 &quot;</td>
<td>3 &quot;</td>
</tr>
<tr>
<td>Machine Drawing</td>
<td>2 &quot;</td>
<td>2 &quot;</td>
</tr>
<tr>
<td>Geometry</td>
<td>2 &quot;</td>
<td>- &quot;</td>
</tr>
<tr>
<td>Science</td>
<td>4 &quot;</td>
<td>4 &quot;</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2 &quot;</td>
<td>2 &quot;</td>
</tr>
<tr>
<td>English and Business Methods</td>
<td>2 &quot;</td>
<td>1 &quot;</td>
</tr>
<tr>
<td>Irish</td>
<td>2 &quot;</td>
<td>1 &quot;</td>
</tr>
<tr>
<td>Electricity</td>
<td>- &quot;</td>
<td>2 &quot;</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30 &quot;</td>
<td>30 &quot;</td>
</tr>
</tbody>
</table>

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 11\(\frac{1}{4}\) K.W., 1929 Quenched Spark Transmitter, a 1\(\frac{1}{4}\) K.W. I.C.W. and C.W. Transmitter, a 1\(\frac{1}{4}\) 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\(\frac{1}{4}\) 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

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>Day</th>
<th>Hour</th>
<th>Room</th>
<th>TEACHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity and Magnetism</td>
<td>Wed.</td>
<td>11.30-12.30</td>
<td>12</td>
<td>W. Fegan.</td>
</tr>
<tr>
<td></td>
<td>Fri.</td>
<td>11.30-12.30</td>
<td>12</td>
<td>E. Morton.</td>
</tr>
<tr>
<td>Electricity and Magnetism</td>
<td>Mon.</td>
<td>11.30-12.30</td>
<td>12</td>
<td>W. Fegan.</td>
</tr>
<tr>
<td></td>
<td>Thurs.</td>
<td>11.30-12.30</td>
<td>12</td>
<td>E. Morton.</td>
</tr>
<tr>
<td>Technical Radio Lecture*</td>
<td>Mon.</td>
<td>3-4</td>
<td>11</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td></td>
<td>Wed.</td>
<td>3-4</td>
<td>11</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td></td>
<td>Fri.</td>
<td>3-4</td>
<td>11</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td>Practical Radio, Section A. (Practical, adjustments, etc.)</td>
<td>Tues.</td>
<td>2-4</td>
<td>11</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td></td>
<td>Thurs.</td>
<td>2-4</td>
<td>11</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td>Rules and Regulations ...</td>
<td>Tues.</td>
<td>11.30-12.30</td>
<td>13</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td>Telegraphy Practice (including handling of radio-telegrams, etc.)</td>
<td>Daily</td>
<td>10.0-12.30</td>
<td>13</td>
<td>H. Hodgens.</td>
</tr>
</tbody>
</table>

Fortnightly examination tests will be held in all subjects.

SYLLABUS OF EXAMINATION FOR CERTIFICATES OF PROFICIENCY IN RADIO TELEGRAPHY.

INTERNATIONAL TELECOMMUNICATION CONVENTION.

(1) It is necessary for persons operating wireless telegraph apparatus on board ships registered in an Atlantic 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:—

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 radiograms, 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:—


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.**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Construction and Quantities</td>
<td>14</td>
</tr>
<tr>
<td>Mathematics and Mechanics</td>
<td>2</td>
</tr>
<tr>
<td>Practical Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Business Methods</td>
<td>2</td>
</tr>
<tr>
<td>Architectural Drawing</td>
<td>2</td>
</tr>
<tr>
<td>Science</td>
<td>2</td>
</tr>
<tr>
<td>Drill</td>
<td>1</td>
</tr>
<tr>
<td>Land Surveying and Levelling</td>
<td></td>
</tr>
</tbody>
</table>

**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.