1935

Day Technical: Prospectus of Courses Session 1935-36

City of Dublin Vocational Education Committee

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City of Dublin
Vocational Education Committee

Scoileanna Ceárd-Oideachais
City of Dublin Technical Schools

Séipín
1935-36

Session
1935-36

PROSPECTUS
OF
DAY TECHNICAL COURSES
BOLTON STREET :: :: KEVIN STREET
RINGSSEND
CALENDAR
SESSION 1935-6

1935.

Sept. 2, Monday. Wholetime Day Schools open for enrolment.
Day Apprentice School resumes work.

Sept. 9, Monday. Wholetime Day Schools commence work, and Part-time Day Classes open for enrolment.


Sept. 23, Monday. Evening Classes commence work.

Oct. 1, Monday. All Saints' Day. Wholetime Day Schools—excepting Day Apprentice School and Special Classes—closed.

Oct. 8, Monday. Feast of Immaculate Conception.

Dec. 14, Monday. Teaching work in Wholetime Day Schools ceases (excepting Day Apprentice School and Special Classes).

Dec. 21, Monday. Term Examinations in Wholetime Day Schools commence (excepting Day Apprentice Schools and Special Classes).

1936.

Jan. 6, Monday. Feast of Epiphany.

Jan. 7, Monday. All classes resume work after Christmas Vacation.


Mar. 7, Monday. Land Surveying and Levelling Course begins.
Motor Car Driving Lessons begin.


Mar. 28, Tuesday. Land Surveying Field work begins.

Apr. 7, Tuesday. Last meeting of classes before Easter Vacation.

Apr. 12, Tuesday. All classes resume work after Easter Vacation.

Apr. 15, Tuesday. New Courses in Practical Pharmacy commence.

May 1, Wednesday. Evening classes close (excepting Special Classes).

May 4, Wednesday. Evening class written Sessional Examinations commence (except for Special classes).

May 21, Wednesday. Ascension Day. Wholetime Day Schools—excepting Day Apprentice School and Special classes—closed.

June 1, Tuesday. Whit Monday. Schools closed.

June 11, Tuesday. Feast of Corpus Christi. Wholetime Day Schools—excepting Day Apprentice School and Special Classes—closed.

June 20, Tuesday. Teaching work ceases in Wholetime Day Schools—excepting Day Apprentice School and Special classes.

June 22, Tuesday. Sessional Examinations commence in Wholetime Day Schools, excepting Day Apprentice School and Special classes.

June 27, Saturday. Wholetime Day Schools close, excepting Day Apprentice School and Special classes.

June 29, Monday. Feast of Saints Peter and Paul.

July 17, Friday. Day Apprentice School and Special classes close.

Schools closed on all Bank Holidays not specified in above Calendar.

CITY OF DUBLIN
VOCATIONAL EDUCATION COMMITTEE

COMMITTEE

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Senator D. D. Healy, T.C., 40 Usher's Quay.
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D. J. Cogan, 12 Merrion Square, N.
M. O'Sullivan, F.C., 7 Moibhi Road, Glasnevin.
Miss Helena Moloney, 51 Larkfield Grove, Kimmage.
Michael O'Foghluide, 5 Cabra Road.
Mr. M. P. Rowan, 27, Leeson Park.
Dr. Lorcan G. Sheridan, 21 Parliament Street.
Mr. Michael Somerville, 1 O'Curry Road, South Circular Road.
Mr. W. J. Whelan, 35 Lower Gardiner Street.

Officer:—
Technical Institute,
Bolton Street,
Dublin.

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For triennial period 1934-37

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Liam O'Carroll, 88 Manor Street.
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L. G. Sherlock, LL.D., 21 Parliament Street.
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Mr. J. J. Bogan, c/o. McEntagart Bros., Percy Place.
Professor B. F. Shields, 87 Pembroke Road.
Mr. William Hanlon, 29 Home Villas, Donnybrook.

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Mr. M. Somerville, 1 O’Curry Road, S.C.R.
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Mr. M. P. Rowan, 27 Leeson Park.
Mr. J. W. Kelly, 16 St. Joseph’s Parade, Nelson Street.
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Madame Kathleen Rody, Broadcasting Station, Henry Street.
Mr. W. J. Whelan, 35 Lower Gardiner Street.
Mr. M. P. Rowan, 27 Leeson Park.
Mr. J. T. Doyle, Osborne Lodge, Mount Prospect Road, Dollymount.
Mr. Thos. M. Murphy, 16 Cowper Road.
Mr. Jos. O’Reilly, 9 Lower Leeson Street.
L. G. Sherlock, LL.D., 21 Parliament Street.

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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.
DAY TECHNICAL COURSES
TECHNICAL INSTITUTES
BOLTON STREET
KEVIN STREET
RINGSEND

Application for entry to classes, other than Day Apprentice, should be made during the second week of September, 1935.

Further particulars relating to Courses and Classes may be obtained from the Chief Executive Officer or the Principals of the various Institutes.

Daytime Courses and Classes

DAY APPRENTICE SCHOOL
BOLTON STREET, KEVIN STREET AND PARNELL SQUARE

Courses in selected trade subjects are being continued under the terms of the Day Apprentice School Scheme inaugurated in 1920. The object is to link Technical Education closely with industry by giving a specialised training from the outset of a boy’s industrial career. Apprentice Scholarships are awarded periodically to boys between the ages of fourteen and sixteen years. These Scholarships comprise free training for two complete years in the Apprentice School, with payment of 6s. weekly for the first year, and 8s. weekly for the second year. New courses will be duly announced.

The trades in which courses are at present being conducted are:

- Bootmaking
- Bricklaying
- Chefs
- Painting
- Plumbing
- Tailoring
- Watchmaking

GENERAL DAY TECHNICAL COURSES.
DAYTIME ENGINEERING COURSES.
BOLTON STREET.

These Scholarship Courses are designed to furnish a sound practical and theoretical training to boys who will subsequently enter the Motor Car, or the General Engineering Trade, as apprentices.

Entrance to the Course is confined to Students of the Day Junior Technical School and will be decided on the results of an Entrance Examination and reports as to attendance, progress and conduct.

The Scholarships entitle students to free instruction for a period of two years, with the provision of such books and instruments as are necessary for class purposes.


Subjects and approximate number of hours per week:

<table>
<thead>
<tr>
<th>Subjects</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</td>
<td>2</td>
</tr>
<tr>
<td>Mechanics</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Machine Drawing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Geometry</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Science</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>English and Business Methods</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Irish</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Electricity</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

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 1¼ K.W., 1929 Quenched Spark Transmitter, a 1¼ K.W. I.C.W. and C.W. Transmitter, a ½ 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 Radio-telegraphy. The instruction consists of Lectures and Practical Work in Technical Electricity, Technical Wireless Telegraphy, and Telephony and Direction Finding, with practice on the 1¼ 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:—

<table>
<thead>
<tr>
<th>Course</th>
<th>First-class Certificate</th>
<th>£12 0 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second-class</td>
<td>10 0 0</td>
<td></td>
</tr>
</tbody>
</table>

Students may arrange to take, with the approval of the Headmaster, 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>TEACHERS</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>Section A (Seniors)</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>Section B (Juniors)</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>Section A</td>
<td>Wed.</td>
<td>3-4</td>
<td>11</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td>Practical Radio,* Section A</td>
<td>Tues.</td>
<td>2-4</td>
<td>11</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td>(Faults, adjustments, etc.)</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</td>
<td>Daily</td>
<td>10.0-12.30</td>
<td>13</td>
<td>H. Hodgens.</td>
</tr>
<tr>
<td>(including handling of radio-telegrams, etc.)</td>
<td>2-4</td>
<td>J. V. Homan</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 RADIOTELEGRAPH CONVENTION.

(1) It is necessary for persons operating wireless telegraph apparatus on board ships registered in An Saorstáit, which are subject to the provisions of the Merchant Shipping (Wireless Telegraphy) Act, 1919, to hold either a First or Second Class Certificate of proficiency, issued by the Minister for Posts and Telegraphs in accordance with Article 7 of the General Regulations annexed to the International Radiotelegraph Convention, 1927.

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) 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.

(d) A knowledge of the principal 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 at the prescribed speeds from a double head-gear telephone receiver ordinarily used for radiotelegraph reception, and to describe them legibly.
(c) To have a theoretical and practical knowledge of the operation, adjustments and maintenance of spark C.W., I.C.W., and D.F. apparatus.

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

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

(f) 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.

(3) The practical examination 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 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:


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 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 wire and wireless routes of the world.

(6) 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 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, adjustments, 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 have knowledge of 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.

(f) 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.

(8) 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 questions, elementary graphs and the elements of trigonometry.

**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>Course</td>
</tr>
</tbody>
</table>
DAYTIME COURSE IN ELECTRICAL & MECHANICAL SCIENCE, KEVIN STREET AND BOLTON STREET.

A Daytime Course suitable for students preparing for entrance to the Electrical or Mechanical Industries or for the Diploma Examinations of the public examining bodies will be conducted at the Technical Institutes, Lower Kevin Street and Bolton Street, Dublin.

The Course will extend over two sessions, and will occupy approximately 25 hours per week.

Materials other than drawing instruments will be provided by the Institute.

Intending students must show evidence of having attained a satisfactory standard of education before admission to the Course.

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 regard to attendance, progress and conduct.

Fees are payable in advance and cannot be returned.

SUBJECTS AND HOURS WEEKLY.

<table>
<thead>
<tr>
<th>Subject</th>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Engineering</td>
<td>4 hours</td>
<td>4 hours</td>
</tr>
<tr>
<td>Applied Mechanics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Engineering Drawing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Geometry</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>General Physics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Heat Engines</td>
<td>1</td>
<td>1½</td>
</tr>
<tr>
<td>Engineering Workshop</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Practical Mathematics</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>English and Business Methods</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Irish</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>French or German</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Training</td>
<td>1</td>
<td>1</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, Lower Kevin Street. Enrolment for the Course should be made in the week commencing Monday, 9th September, 1935.

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 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, Art Drawing and Machine Drawing.
GENERAL CURRICULUM OF THE SCHOOLS
UNDER THE CONTROL OF
THE CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE.

EVENING SCHOOL COURSES.

Architecture and Building.
Furniture.
Chemistry.
Botany, Materia Medica, Pharmacy.
Mathematics.
Physics.
Electrical Engineering and Allied Trades.
Radio Communication
Mechanical Engineering and Allied Trades.
Motor Car Engineering.
Gas Engineering and Gas Fitting.
Oxy-Acetylene Welding.
Electric Welding.
Brassfinishing.
Printing and Book Production.
Art and Art Crafts—Wood carving, Enamelling on Metal, Leatherwork, Book Illustration.
Commerce and Languages.
Domestic Science and Women’s Work.
Catering Trades.
Bootmaking.
Hairstyling.
Tailoring.
Watchmaking and Repairing.
Music.
Physical Training, and

DAY SCHOOL COURSES.

Day Apprentice Schools.
Day Junior Technical Schools.
Day Schools of Commerce.
Retail Distribution.
Building Science.
Printing (Apprentices).
Painting (Apprentices).
Radio Telegraphy.
Electro Technology.
Shirtmaking (Power Machines)
Clothing Manufacture (Power Machines)
Art Leatherwork
Dressmaking.
Needlework.
Cookery.

DAY CONTINUATION WORK
(for Boys and Girls between 14 and 16 years).