

and the use of the various solders, fluxes, and soldering-fluids; theory and practice of soldering; soldering-bits; blowpipes; brazing; autogenous soldering. The tools used in plumbers' work—their forms, uses, &c. Manufacture of the metals into the various forms in which they are used in plumbing; cast sheet-lead; milled sheet-lead; rolled zinc; galvanized iron; casting lead tubes; coating tubes internally. Gas-fittings; measurement of pressure of gas in a main or pipe; forms of burners; gas-meters, wet and dry; gas-valves. Second term: Sanitary arrangements in dwelling-houses (town and country) and other buildings; common defects; methods of testing drains, soil-pipes, &c.; principal points to be attended to in (1) fitting new houses, (2) remedying existing defects. Water-closets and their fittings; service-boxes; waste-water preventers; earth-closets, ash-closets, &c.; baths, sinks, urinals. Water-supply for houses; dangers arising from insufficient or impure supply; house-cisterns—their construction, position, management, and care; filters, water-meters; arrangements for collecting and storing rain-water. Roofing; rain-drainage of houses; external plumbers' work. Varieties of traps, D-traps, S-traps, bell-traps, &c.—their use and abuse; soil-pipes; connection with drain; connection of drain with sewer; ventilation of soil-pipes and drains; sizes of pipes; amount of fall required; objections to brick drains; proper materials and constructions for drains; joints for drain-pipes, and methods of laying the same.

*C. Plumbers and Gasfitters.*—First year: First term—Chemistry, 2, Monday and Thursday; mathematics, 1, Wednesday; freehand drawing, 1, Friday: second term—the same in continuation. Second year: First term—Physics, 2, Friday; plane geometry, 1, Monday: second term—physics, 2, Friday; solid geometry, 1, Monday. Third year: First term—Applied mechanics, 2, Tuesday; trade class, 2, Monday and Wednesday: second term—trade-class, 2, Monday and Wednesday. Text-books recommended: "The Plumber, and Sanitary Houses," and "Science and Art of Sanitary Plumbing," Hellyer, London; "Plumbing and House-draining," W. P. Buchan; "Plumber and Decorator," Davis, London; "Waterworks," Hughes (Weale's Series).

*Department of Art (Instructor, Mr. Lucien Henry).*

The course of instruction in art includes a number of subjects, and is completed in three years. Students who wish to get the certificate of Expert in Art must attend the whole course of instruction and pass a satisfactory examination in each subject, must also obtain certificates for physics and chemistry of colours, and satisfy the examiners as to their knowledge of English and bookkeeping. A student may, however, attend any course of instruction in any subject (A) under art, and, if he pass a satisfactory examination, shall be granted a certificate. The course of instruction is as follows:—

*A. Subjects.*—Geometry: Two years' course of study; Monday, 7.30 p.m. Perspective: Two years' course of study; Tuesday, 7.30 p.m. Model-drawing: Two years' course of study; Wednesday, Thursday, and Friday, 7.30 p.m. Freehand drawing: Two years' course of study; Wednesday, Thursday, and Friday, 7.30 p.m. Design: One year's course of study; Monday and Friday, 8 p.m. House-painting: One year's course of study; Tuesday and Friday, 7.30 p.m. House-decorating: One year's course of study; Thursday, 7.30 p.m. Modelling: Two years' course of study; Monday, Tuesday, and Thursday, 7.30 p.m. Instructor, Mr. Lucien Henry.

*Art-classes.*—7.30 to 9.30 p.m. First year, drawing: Monday, elements of practical geometry; Tuesday, elements of practical perspective; Wednesday, Thursday, Friday, freehand drawing. Second year, drawing: Monday, advanced practical geometry; Tuesday, advanced practical perspective; Wednesday, Thursday, Friday, advanced freehand drawing. Third year, design: Monday, theory, 8 p.m.; Friday, practice, 8 p.m. Certificates in physics and chemistry required (see above).

*Pupil-teachers' Special Course.*—First year: Monday, elements of practical geometry; Friday, model-drawing. Second year: Tuesday, elements of practical perspective; Friday, freehand drawing.

*Teachers' Special Course.*—Stage 1 (first half-year): Wednesday, geometry and perspective (this class meets at Castlereagh-street Public School, 7.30 to 9.30 p.m.); Saturday, model-drawing, 10.30 a.m. to 12.30 p.m. Stage 2 (second half-year): Wednesday, geometry and perspective (continued); Saturday, freehand drawing. Text-books: Burchett's "Practical Geometry," Humphrey's "Perspective," Burchett's "Perspective." Pass-tickets in the above courses are accepted by the Department of Public Instruction.

*Modelling.*—First year: First term—Modelling details in wax or clay; second term—complete simple subjects. Second year: First term—Friezes, panels, and capitals; second term—designs for mouldings, enrichments, brackets, centre-flowers, pilasters, &c.

If any student wishes to get the certificate of Expert in any of the trades under the instructor in art, he must attend the whole course of instruction laid down, and obtain certificates in each of the following subjects, and for physics and chemistry. Students wishing fuller information and advice should apply to the instructor in art.

*House Painters and Decorators, Paperhangers, Designers for Textile Fabrics, China-painters.*—First year: Same as first year of art course. Second year: First and second terms—Decorating-class, 2, Tuesday and Friday; freehand drawing, 1, Wednesday; chemistry, 2, Monday and Thursday. Third year: First and second terms—Decorating-class, 2, Tuesday and Friday; freehand drawing, 1, Wednesday; design applied to decoration, 2, Monday and Friday.

*Modellers, Potters, Terra-cotta Workers, Plasterers.*—First year: Same as first year of art course. Second year: First and second terms—Chemistry, 2, Monday and Thursday; modelling, 2, Tuesday and Friday; freehand drawing, 1, Wednesday. Third year: First and second terms—Design, 2, Monday and Friday; modelling, 2, Tuesday and Friday; perspective applied to decoration, 1, Wednesday.

*House Painting and Decorating (Mr. P. W. Johnson).*—*House-painting.*—One year's course of study. Tuesday and Friday, at 7.30 p.m. First term: Colours, brushes, painting, flattening, grain-