

B. Technical Classes.

42. Technical classes may be held in the subjects named in the following divisions:—

Division I.

Elementary commercial subjects, and subjects of commercial routine, such as elementary correspondence and précis-writing, copying, indexing, filing, shorthand, typing, and the mechanical operations concerned with postage, telegraphing, and banking.

Division II.

Higher commercial subjects, such as actuarial arithmetic, book-keeping and accounting, banking and currency, mercantile and commercial practice and law, economics of industry and commerce, elementary mathematics, elementary practical mathematics, and practical plane and solid geometry.

Division III.

Mathematics and science as applied to specific industries, machine construction, building-construction, metallurgy, mineralogy, chemistry of commerce, engineering (civil, mechanical, electrical, mining, sanitary, &c.), architecture, building and allied industries, printing and process industries, electrical industries, wood- and metal-working industries, agricultural and horticultural industries, and similar subjects.

Division IV.

More advanced mathematics having a practical direction in application to industrial processes, and the various branches of natural and physical science, home science and applied science, where laboratory practice occupies at least half the total time for which payment is claimed.

Division V.

Art and Art-crafts:—

Free drawing in outline or in light and shade, or painting in monochrome from casts of ornament, objects, plant-forms, drapery, landscape details, details or whole of animal forms or human figure. Free-arm and blackboard drawing. Design. Painting ornament. Principles of ornament. Modelling from casts or photographs of simple ornamental devices. Architectural drawing and design. Mural decoration. Drawing from actual measurements of structures, &c. Painting still life, flowers, landscapes in colours. Drawing, painting, or modelling anatomical studies of animal forms or of the human figure. Modelling design, modelling in relief or in the round, drapery, plant and animal forms, or the human figure from casts or from nature. Painting animal forms or the human figure in colour. Figure composition. Various subjects of applied art.

Division VI.

Domestic science:—

Home-making and home-keeping; personal and domestic hygiene; home-nursing; cookery; laundry-work; needlework; dressmaking; millinery, &c.

Division VII.

Teachers' classes for subjects of manual and technical instruction for the Class D and Class C Examinations.

43. In addition to the practical work necessary for the demonstration of subjects in Divisions III, IV, V, and VI of clause 42 hereof, at least half the total time for which payment is claimed must be devoted to individual practice by the students working with their own hands. Such practical work should not be less than a continuous hour and a half in any one lesson, and must in the case of subjects relating to specific trades be so arranged as to be illustrative of the principles taught, and should not be directed merely to developing dexterity in the practice of trade processes.

44. Capitation for wood-carving, art needlework, and other art-craft classes will be paid at the rate for Division V of clause 42 only when the instruction is based upon studies and designs made by the students themselves, and adapted to the work by the students themselves. Similarly capitation for dressmaking classes will be paid at the rate for Division VI of clause 42 or Division II of clause 40 hereof, as the case may be, only when the method of instruction does not involve reference to or the use of charts or of curved or specially graduated scales.