

(b) A University Engineering degree, or other examination passes required by any of the above institutions for exemption from Sections A and B of their examination for Associate Membership; but candidates admitted under this sub-section must obtain the qualification in sub-section (a) above before they are confirmed in their appointment. EXCEPTIONALLY, however, where a candidate is prevented, by circumstances outside his control, from obtaining the further qualification, appointment may be confirmed with the concurrence of the Treasury and the Civil Service Commissioners; *provided that*

(c) The Commissioners may, at their discretion, admit candidates who can furnish evidence of exceptionally high professional attainment.

(ii) In addition candidates must produce evidence that both the examination subjects included in their qualifications (see Regulation 4A (i) (a) and (b) on this page) and their practical experience are appropriate to the particular requirements specified below.

Admiralty.

Candidates for the Admiralty Production Pool must have not less than three years' experience of production in mechanical and/or electrical engineering industry after full indentured apprenticeship or after graduation and general practical training.

For Mechanical Engineer posts in the Civil Engineer-in-Chief's Department, the minimum qualifications mentioned in Regulation 4A (i) on this page relate to the Institution of Mechanical Engineers only, and in addition candidates must have been employed for a minimum of two years with a well-established engineering concern of sufficient size and scope for them to have gained experience in both mechanical and electrical engineering after full indentured apprenticeship or after graduation and general practical training.

Ministry of Transport.

Candidates for mechanical posts must have completed a recognised course of theoretical and technical training in mechanical and automobile engineering and have experience of road vehicle design and construction. For electrical posts candidates must be experienced in the preparation of specifications and in investigating the performance of equipment. In addition a knowledge of testing in relation to electrical work is required.

Ministry of Works.

Candidates will be required to furnish evidence of their apprenticeship and subsequent experience which should have afforded a good general training in mechanical or electrical engineering, capable of subsequent development to cover a wide field of responsibility.

Some experience in one or more of the following branches will be essential:—

Design and execution of engineering installations for office buildings, factories or hospitals, including heating, ventilation, air conditioning, electric wiring, illumination and lifts.

Design and installation of mechanical plant such as steam boilers, pressure vessels, pumps, water treatment, refrigeration, chemical processes, air compressors and air, hydraulic or steam pipelines, I.C. engines.

Design and installation of electrical plant such as transformers, switchgear, H.T. and L.T. overhead and underground distribution, D.C. and A.C. motors and generators and rectifiers.

Management of operation and maintenance of engineering plant in large office buildings, factories or institutions.

Air Ministry.

Candidates must:—

I. (a) be holders of a University degree in electrical and/or mechanical engineering, and have served at least two years' apprenticeship; or

(b) be graduates of the Institution of Electrical Engineers, or hold an equivalent diploma in electrical engineering, and have served at least three years' apprenticeship; or

(c) be graduates of the Institution of Mechanical Engineers, or hold an equivalent diploma in mechanical engineering with appreciable electrical engineering experience and have served at least a three-year apprenticeship.

II. Have been employed for a minimum of two years with a well-established engineering concern of sufficient size and scope for them to have gained experience in both mechanical and electrical engineering.

(B) THE DEPARTMENTAL VARIANTS.

(a) Ministry of Civil Aviation.

Candidates must:—

(i) be Corporate Members of the Institution of Electrical Engineers, or be Associate Fellows of the Royal Aeronautical Society; or

(ii) have passed Sections A and B of the Associate Membership Examination of the Institution of Electrical Engineers, or hold an educational qualification recognised by that Institution as giving exemption from examination in those Sections; but candidates admitted under this sub-section must normally obtain the qualification in sub-section (i) above before they are confirmed in their appointment (Exception may be made in special circumstances provided for in Regulation 4A (i) (b) on page 6); or

(iii) hold a first or second class Honours degree in Physics or Engineering *provided that* the Commissioners may at their discretion admit, exceptionally, candidates who furnish evidence of high professional attainment.

In addition all candidates must produce evidence that both the examination subjects included in their qualifications and their practical experience justify their employment on civil aviation telecommunications duties.

(b) Ministry of Fuel and Power.

Candidates for Assistant Fuel Engineer posts must:—

(i) have obtained Corporate Membership of the Institute of Fuel by examination, or of the Institution of Mechanical or Chemical Engineers or

(ii) have a University Engineering degree or other examination passes required by the Institution of Mechanical Engineers or the Institute of Fuel for exemption from Sections A and B of their examinations for Associate Membership or

(iii) be Graduate Members of the Institution of Chemical Engineers.

Candidates admitted under sub-sections (ii) or (iii) above must normally obtain the corresponding qualification in sub-section (i) above before they are confirmed in their appointment. (Exception may be made in special circumstances as in Regulation 4A (i) on page 6.)

Candidates should also have industrial experience in the use of fuel and power and practical knowledge in one or more of the following subjects:—

(i) the transmission and use of steam for power, and process of heating purposes;

(ii) the combustion and properties of British coals and other fuels;

(iii) producer gas practice and its application to metallurgical furnaces;

(iv) the design and operation of boilers, furnaces and ancillary equipment;

(v) heating and ventilation practice and the domestic uses of fuel.

Candidates for the Electricity meter examiner post must:—

(a) have obtained Corporate Membership of the Institution of Electrical Engineers, or

(b) have a University degree in Electrical Engineering or other examination passes required by the Institution of Electrical Engineers for exemption from Sections A and B of their Examination for Associate Membership, but candidates admitted under this sub-section must normally obtain the qualification in sub-section (a) above before they are confirmed in their appointment. (Exception may be made in special circumstances as in Regulation 4A (i) on page 6.)

Candidates must also have:—

(a) not less than three years' experience in precision electrical measurements and the testing of all types of electricity supply meter, and

(b) at least a three-year apprenticeship or pupilage with an electrical engineering firm of repute or in the Electricity Supply Industry, or, in place of (b)

(c) after graduation at a University, general practical training or pupilage with an electrical engineering firm of repute or in the Electricity Supply Industry.

(c) Post Office.

Candidates must normally possess an Honours degree in Mechanical or Electrical Engineering or in Physics, but exceptionally the Commissioners may accept any other candidate qualified under Regulation 4A (i) on page 6.