

Factories (Superintendence and Control of Plant) Regulations, 1954¹

In exercise of the powers vested in him by sections 2 and 3 of the Factories Ordinance (Chapter 169) the Governor-in-Council has been pleased to make the following Regulations:-

1. These Regulations may be cited as the Factories (Superintendence and Control of Plant) Regulations, 1954.

2. In these Regulations:

"factory" has the same meaning as that assigned to it by the Factories (Chapter 169) and includes any premises or open space wherein a plant is installed otherwise than for the private domestic purposes of the owner, which premises or open spaces are hereby declared by the Governor-in-Council to be factories to which the said Ordinance applies;

"plant" means any machine or equipment producing power in mechanical, electrical or chemical form, operating or for the purpose of operating machines and/or equipment consuming or utilising such power.

3. No plant installed in any factory shall be operated:

- (a) if the horse power rating does not exceed 200 except -
 - (i) in the case of steam driven plant, by a person duly licensed to be an Engine Driver (Steam) (First or Second Grade);
 - (ii) in the case of motor driven plant, by a person duly licensed to be an Engine Driver (Internal Combustion) (First or Second Grade);
 - (iii) in the case of electrically driven plant, by a person duly licensed to be an Electric Motor Driver (First or Second Grade) :

Provided that this paragraph shall not apply to motor driven or electrically driven plant with a horse power rating of less than fifty unless the Director of Labour and Emigration in any specific case so determines;

- (b) if the horse power rating exceeds 200 except:-
 - (i) in the case of steam driven plant, by a person duly licensed to be an Engine Driver (Steam) (First Grade);
 - (ii) in the case of motor driven plant, by a person duly licensed to be an Engine Driver (Internal Combustion) (First Grade);

¹ This is the text of the Factories (Superintendence and Control of Plant) Regulations, 1954, which are being republished in this format for the convenience of readers and are not to be regarded as the official text thereof. The text includes all amendments to date, if any.

- (iii) in the case of electrically driven plant, except by a person duly licensed to be an Electric Motor Driver (First Grade).
4. (1) (a) The licences referred to in the last preceding regulation shall on application be issued by the Director of Labour and Emigration to any person who satisfies the relevant requirements in the Schedule hereto.
- (b) The Director of Labour and Emigration shall issue a licence to act as Engine Driver (Steam) (Second Grade) or Electric Motor Driver (Second Grade) to any person who, having attained the age of twenty years, shall before the 31st December 1975 show to the satisfaction of the examining board mentioned in paragraph 2 of Part I of the Schedule hereto that he has served for not less than three years as Engine (Steam) or Electric Motor Driver and who shall qualify at an oral test as laid down in Part II of the said Schedule as applicable.
- (c) The Director of Labour and Emigration shall issue a licence to act as Engine Driver (Steam) (Second Grade) to any person who, having attained the age of twenty years, shall, before the 28th February 1979, produce to the satisfaction of the Director of Labour and Emigration a certificate of proficiency to a standard equivalent to that laid down in the relative section of Part II of the Schedule to these regulations, endorsed by a panel of three Engineers nominated by the Director of Labour and Emigration and who has served for not less than three years on the operation of steam plants.
- (d) Any person who on the date of the publication of these Regulations in the Government Gazette holds a Police Licence to act as Engine Driver shall, on application, be issued by the Director of Labour with a licence to act as Engine Driver (Internal Combustion) (Second Grade) or Engine Driver (Steam) (Second Grade) as the case may be.
- (2) A fee of seventy-five cents shall be levied and collected by the Director of Labour for every licence issued under this Regulation. Such licence shall be valid for the calendar year in which it has been issued and shall be renewable during the month of January of each succeeding year against payment of a fee of seventy-five cents.
- (3) Employees in government Departments possessing the qualifications laid down by these Regulations and certified yearly by the Head of their Department as engaged in any of the various callings provided for by these Regulations shall be exempted from the payment of the fees established by these Regulations.
5. Regulation 16 of the Factories (Steam Boilers) Regulations, 1951, and Government Notice No. 128 of 2nd April 1954, are hereby repealed.

SCHEDULE
ENGINE AND ELECTRIC MOTOR DRIVERS
EXAMINATION

PART I – GENERAL

1. No person shall be admitted to the examination unless he has attained the age of 19 years by the first day of the month in which the examination is held.
2. To obtain a licence to act as "Engine or Electric Motor Driver" candidates must show to the satisfaction of the duly appointed examining board that they can speak, read and write both English and Maltese sufficiently well to be able to perform the duties required of them.
3. Candidates must produce testimonials stating clearly the period of service, including dates and class of work, in which they have been employed.
4. Candidates must produce certificates showing that they have successfully completed a one year engineering course at a Technical School or that they possess equivalent qualifications. Except in the proviso to sub paragraph 2 of paragraph E of Part II of this Schedule.
5. The time which the student attends as in para. 3 above will be counted as half time for practical experience in workshop service.

PART II – SYLLABUS

(A) Engine Driver (Steam) (Second Grade) -

- for a licence to act as Engine Driver on Steam Driven Plant with a rated Horse Power not exceeding 200.

1. Oral examination only to test candidates' knowledge of:-
 - (a) The construction and maintenance of the various types of Boilers, Precautions to be taken when raising steam.
 - (b) The use and management of the different Boiler mountings with special reference to water gauges and safety valves.
 - (c) The use of the thermometer and salinometer.
 - (d) The causes, effects and usual remedies for scale deposit, corrosion and priming.

- (e) The working principles and practice of the various steam engines now adopted, the function of each important part, and the attention required by the different parts of the machinery.
- (f) The method of making all necessary minor adjustments and temporary repairs to the engines.
- (g) The construction of centrifugal bucket and force pumps and the principles on which they act.
- (h) The nature and properties of fuels used in connection with a steam driven plant. The necessary precautions to be taken when cleaning fuel storage tanks.

2. PRACTICAL EXPERIENCE REQUIRED:

- (a) Workshop Service - Three years in the calling of engine fitter during which time applicant is expected to have assisted at the repairing, fitting and assembling of steam machinery and boilers.
- (b) Land Service - One year as learner or assistant Engine Driver on land steam driven plant, including the carrying out of minor running repairs and routine maintenance overhauls.

(B) Engine Driver (Steam) (First Grade) -

for a licence to act as Engine Driver on steam driven plant with a rated Horse Power exceeding 200.

- 1. A written and oral examination designed to test candidates in items (a) to (h) of Section (A) (1) of this Part at a more advanced level. In addition candidates must show that they can perform elementary calculations as required in good workshop practice.
- 2. Candidates must be in possession of a Licence to act as Engine Drivers (Steam) (Second Grade) and must have served for 18 months as Engine Drivers on Land.

(C) Engine Driver (Internal Combustion) (Second Grade) -

for a licence to act as Engine Driver on Internal Combustion Driven Plant with a rated Horse Power not exceeding 200.

- 1. Oral examination only to test candidates' knowledge of:-
 - (a) The principles on which oil, gas, or other internal combustion engines work, including methods of ignition, and to distinguish the differences between the various types.
 - (b) The degree of attention required to be paid to the various parts of machinery and the various methods of supplying air and fuel to the cylinders of engines of different types.

- (c) The principles, construction and method of maintaining batteries in serviceable condition.
- (d) Air compressors, air reservoirs and their fittings, and the importance of maintaining these in good condition.
- (e) The use of gauges, thermometers, tachometers, and other meters commonly used by engineers, including voltmeters, ammeters, etc.
- (f) The nature and properties of fuels generally used in internal combustion engines.
- (g) The danger of naked lights exposed to gas or vapour or of allowing any leakage from oil tanks. The necessary precautions to be taken when cleaning fuel storage tanks.
- (h) The precautions to be taken to prevent fire and the use of the various appliances in case of fire.

2. PRACTICAL EXPERIENCE REQUIRED:

- (a) Workshop Service - Three years in the calling of engine fitter during which time applicant is expected to have assisted at the repairing, fitting and assembling of internal combustion engines.
- (b) Land Service - One year as learner or Assistant Engine Driver on Internal Combustion Engine Driven Plant, including the carrying out of minor repairs and routine maintenance overhauls.

(D) Engine Driver (Internal Combustion) (First Grade) -

for a licence to act as Engine Driver for Internal Combustion Driven Plant, with a rated Horse Power exceeding 200.

- 1. A written and oral examination designed to test candidates in items (a) to (h) of Section (C) (1) of this Part at a more advanced level. In addition candidates must show that they can perform elementary calculations as required in good workshop practice.
- 2. Candidates must be in possession of a Licence to act as Engine Driver (Internal Combustion) (Second Grade) and must have served for 18 months as Engine Drivers on land.

(E) Electric Motor Driver (Second Grade) -

for a licence to act as an Electric Motor Driver, where the Driving Power consists exclusively of Electric Motors with a rated Horse Power not exceeding 200.

- 1. Oral Examination only to test candidates knowledge of:-
 - (a) The differences between alternating and direct currents.

- (b) The principles and construction of the different types of electric motors, both of the direct and alternating current types.
- (c) The principles and construction of the starters used for direct and alternating current motors, including automatic starters.
- (d) All methods of starting, and the precautions to be taken to prevent excessive heating of the starter resistances.
- (e) The uses and connections of condensers for starting capacitor motors.
- (f) The needs and importance of automatic protection and the precautions and tests to be made to ascertain whether it functions properly.
- (g) The methods necessary to prevent sparking between the brushes and the commutator or slip rings as the case may be.
- (h) The degree of attention necessary to maintain motors, etc., under their charge in good working condition and to effect minor running repairs.
- (i) The manner to read and diagnose minor defects from electric meters such as Voltmeters, Ammeters, Wattmeters, Frequency Meters, Power Factor Meters, etc.
- (j) The effect of voltage and frequency on the running of motors.

2. PRACTICAL EXPERIENCE REQUIRED:

- (a) Workshop Service - Three years in the calling of electric fitter during which time applicant is expected to have assisted at the repairing, fitting and assembling of electric motors and starters.
- (b) One year as learner or assistant electric motor driver, including the carrying out of minor repairs and routine maintenance overhauls.

Provided that the practical experience required in the calling of Electrical Fitter and as Learner or Assistant Electric Motor Driver, as the case may be, in the case of a candidate who has had five years experience as Road Roller Driver, Engine Driver, Engine Driver Mate, Stoker or Fitter, shall be of a total period of not less than one year of which not less than 9 months shall be in the active assistance of the Electric Fitter on site of works and not less than 3 months as Learner or Assistant Electric Motor Driver as the case may be.

(F) Electric Motor Driver (First Grade) -

for a licence to act as an Electric Motor Driver, where the Driving power consists exclusively of Electric Motors with a rated Horse Power exceeding 200.

1. A written and oral examination designed to test candidates in items (a) to (j) of Section (E) (1) of this part at a more advanced level. In addition candidates must show that they can perform elementary calculation as required in good workshop practice.

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2. Candidates must be in possession of a licence to act as Electric Motor Driver (Second Grade) and must have served for 18 months as Electric Motor Driver.