

# **Electricity (Electrical Workers) Regulations**

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#### ELECTRICITY ACT (CHAPTER 89A, SECTION 103)

#### ELECTRICITY (ELECTRICAL WORKERS) REGULATIONS

Rg 1

G.N. No. S 602/2002

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(29th February 2004)

[1st December 2002]

### Citation

1. These Regulations may be cited as the Electricity (Electrical Workers) Regulations.

### Definitions

2. In these Regulations, unless the context otherwise requires —

“approved courses webpage” means the Internet webpage, accessible through a hyperlink on the Internet website known as ELISE, on which the Authority specifies the courses of instruction to be completed by a person in connection with an electrician’s licence or an electrical technician’s licence, as the case may be;

*[S 862/2018 wef 01/01/2019]*

“authorised high voltage switching engineer” means a licensed electrical engineer who is —

- (a) authorised by the Authority to operate a high voltage apparatus; and
- (b) employed or appointed by the licensee of the electrical installation of which the high voltage apparatus forms a part to be in charge of or to control such apparatus;

“voltage” means —

- (a) an electro-motive force between any pair of conductors forming part of an electrical circuit or between any part of either conductor and Earth; and
- (b) in the case of alternating current, the virtual voltage or root mean square value (or the square root of the mean or average value of the squares of the instantaneous values) of the voltage during the complete cycle.

### **Classes of licence**

3. There shall be 3 classes of electrical worker licences as follow:

- (a) the electrician’s licence;
- (b) the electrical technician’s licence; and
- (c) the electrical engineer’s licence.

### **Qualifications**

4.—(1) An electrician’s licence may be issued to any person who —

- (a) satisfies the Authority that he —
  - (i) possesses a National Institute of Technical Education Certificate which curriculum is relevant to the electrical work which an electrician is authorised to perform under regulation 5(1), or such other qualification as may be acceptable to the Authority; and

*[S 22/2015 wef 01/02/2015]*

- (ii) has not less than 2 years practical experience in Singapore relevant to the electrical work which an electrician is authorised to perform under regulation 5(1);

*[S 22/2015 wef 01/02/2015]*

- (aa) satisfies the Authority that he has not less than 10 years practical experience in Singapore relevant to the electrical work which an electrician is authorised to perform under regulation 5(1);

(ab) satisfies the Authority that he —

- (i) has not less than 5 years practical experience in Singapore relevant to the electrical work which an electrician is authorised to perform under regulation 5(1); and
- (ii) has successfully completed a course of instruction specified on the approved courses webpage that is relevant to the electrical work which an electrician is authorised to perform under regulation 5(1); or

*[S 862/2018 wef 01/01/2019]*

(b) had been registered as an electrical contractor by the Public Utilities Board before 1st January 1975.

(2) An electrical technician's licence may be issued to any person who —

(a) satisfies the Authority that he —

- (i) possesses a diploma majoring in electrical power engineering relevant to the electrical work which an electrical technician is authorised to perform under regulation 5(2), or such other qualification as may be acceptable to the Authority; and
- (ii) has not less than 2 years practical experience in Singapore relevant to the electrical work which an electrical technician is authorised to perform under regulation 5(2);

(b) satisfies the Authority that he —

- (i) possesses a diploma majoring in electrical power engineering relevant to the electrical work which an electrical technician is authorised to perform under regulation 5(2), or such other qualification as may be acceptable to the Authority;
- (ii) has not less than one year practical experience in Singapore relevant to the electrical work which an electrical technician is authorised to perform under regulation 5(2); and
- (iii) has successfully completed a course of instruction specified on the approved courses webpage that is relevant to the electrical work which an electrical technician is authorised to perform under regulation 5(2); or

- (c) satisfies the Authority that he —
- (i) possesses an electrician's licence;
  - (ii) has not less than 5 years practical experience in Singapore relevant to the electrical work which an electrician is authorised to perform under regulation 5(1), beginning on the date the electrician's licence was issued to him; and
  - (iii) has successfully completed a course of instruction specified on the approved courses webpage that is relevant to the electrical work which an electrical technician is authorised to perform under regulation 5(2).

*[S 862/2018 wef 01/01/2019]*

(3) An electrical engineer's licence may be issued to any person who satisfies the Authority that he —

- (a) is a registered professional engineer in electrical engineering under the Professional Engineers Act (Cap. 253); and
- (b) has not less than 2 years post-graduate experience in Singapore in electrical power engineering relevant to the electrical work which an electrical engineer is authorised to perform under regulation 5(3).

*[S 22/2015 wef 01/02/2015]*

### **Authority conferred by licence**

5.—(1) The holder of an electrician's licence shall, subject to any condition imposed by the Authority under regulation 8(3), be entitled to —

- (a) design, install, repair, maintain, operate, inspect and test an electrical installation where the operating voltage of such installation does not exceed 1,000 volts and the approved load of such installation does not exceed 45 kVA, except that the limitation of 1,000 volts shall not apply in the case of an Electric Discharge Lighting Circuit;
- (b) install, repair, maintain and operate, under the supervision of an electrical technician, an electrical installation where the operating voltage of such installation does not exceed 1,000 volts and the approved load of such installation is more than 45 kVA but does not exceed 500 kVA; and
- (c) carry out any work as instructed by or under the supervision of an authorised high voltage switching engineer.

(2) The holder of an electrical technician's licence shall, subject to any condition