

An outline of the registration criteria to be registered by the chief inspector as an electrical tester for single phase, installation electrician and master installation electrician as prescribed in the Electrical Installation Regulation, 2009.

Electrical tester for single phase

Option 1

- National certificate in electrical engineering: NQF level 3 issued by the Energy and Water Sector Education and Training Authority (EWSETA).
- Unit standards on inspection, testing and certification of single-phase domestic installations as prescribed by the EWSETA.
- One year's practical experience or training in electrical installation work after achieving the national certificate in electrical engineering: NQF level 3.
- Working knowledge of the legislation and relevant health and safety standards applicable to single-phase electrical installations, assessed by an EWSETA registered assessor.

Option 2

- Either the prescribed trade test in terms of the Manpower Training Act of 1981 or the Skills Development Act of 1998 in one of the following disciplines: electrician; electrician (engineering); electrician (construction); millwright (electro-mechanical) and lift mechanic or chemical electrical NQF level 4 issued by the Chemical Industries Education and Training Authority (CHIETA).
- Unit standards on inspection, testing and certification of single-phase domestic installations as prescribed by the EWSETA.
- Either national N2 certificate with mathematics, engineering science and electrical trade theory or a grade 11 certificate with mathematics, science and a technical, electrical or equivalent subject which may include an N2 subject.
- Working knowledge of the legislation and relevant health and safety standards applicable to single-phase electrical installations, assessed by an EWSETA registered assessor.

Option 3

- Five years' years experience in electrical installation work.
- Competence in constructing single-phase electrical installations as well as knowledge of basic electrical principles assessed at an EWSETA accredited training provider.
- Unit standards on inspection, testing and certification of single-phase domestic installations as prescribed by the EWSETA.
- Working knowledge of the legislation and relevant health and safety standards applicable to single-phase electrical installations, assessed by an EWSETA registered assessor.

Installation electrician

Option 1

- National certificate in electrical engineering: NQF level 4 issued by the EWSETA.
- Unit standards on inspection, testing and certification of three-phase industrial/commercial installations as prescribed by the EWSETA.

- Knowledge of the legislation and relevant health and safety standards applicable to electrical installations by having passed the subject installation rules administered by the Department of Higher Education and Training.

Option 2

- Either the prescribed trade test in terms of the Manpower Training Act, 1981/Skills Development Act, 1998 in one of the following disciplines: electrician; electrician (engineering); electrician (construction); millwright (electro-mechanical) or lift mechanic, or chemical electrical NQF level 4 qualification issued by the Chemical Industries Education and Training Authority (CHIETA).
- Unit standards on inspection, testing and certification of three-phase industrial/commercial installations as prescribed by the EWSETA.
- Either a National N3 certificate with mathematics, engineering science/industrial electronics and electrical trade theory/electro-technology, or a grade 12 certificate with mathematics, science and technical-electrical or an equivalent subject which may include an N3 subject.
- Knowledge of the legislation and relevant health and safety standards applicable to electrical installations by having passed the subject installation rules as administered by the Department of Higher Education and Training.

Option 3

- A diploma or degree in electrical engineering: either a T3 diploma (heavy current); a S4 diploma (power engineering); a B-Tech degree; BSc or B degree, or a government certificate of competency (factories or mines).
- Unit standards on inspection, testing and certification of three-phase industrial/commercial installations as prescribed by the EWSETA.
- Knowledge on the legislation and relevant health and safety standards applicable to electrical installations by having passed the subject installation rules administered by the Department of Higher Education and Training.

Master installation electrician

Option 1

- Be registered as an installation electrician for two years.
- One year's practical experience in hazardous locations.
- National certificate in electrical engineering: NQF level 5 issued by the EWSETA
- Unit standards on inspection, testing and certification of specialised electrical installations in hazardous locations as prescribed by the EWSETA.
- Knowledge on the legislation and relevant health and safety standards applicable to electrical installations by having passed the subject specialised codes administered by the Department of Higher Education and Training.

Option 2

- Two years' experience as a registered installation electrician.
- One year's experience in hazardous locations.
- Unit standards on inspection, testing and certification of specialised electrical installations in hazardous locations as prescribed by the EWSETA.

- National N6 certificate with one of the following: electrotechnics, fault finding and protection devices or industrial electronics.
- Knowledge on the legislation and relevant health and safety standards applicable to electrical installations by having passed the subject specialised codes administered by the Department of Higher Education and Training.

Option 3

- Two years' experience as a registered installation electrician.
- One year's practical experience in hazardous locations.
- Unit standards on inspection, testing and certification of specialised electrical installations in hazardous locations prescribed by the EWSETA.
- A diploma or degree in electrical engineering: either a T3 national diploma (heavy current); S4 diploma (power engineering); B-Tech degree/higher national diploma; BSc/B degree or a Government Certificate of Competency (factories or mines).
- Knowledge of the legislation and relevant health and safety standards applicable to electrical installations by having passed the subject specialised codes administered by the Department of Higher Education and Training.

Option 4

- Two years' experience as a registered installation electrician.
- Five years' practical experience in hazardous locations.
- Unit standards on inspection, testing and certification of specialised electrical installations in hazardous locations prescribed by the EWSETA.
- RPL competence declaration from the South African Frameproof Association (SAFA) MIE group.
- Either a National N3 certificate with mathematics, engineering science/industrial electronics and electrical trade theory/electro-technology, or a Grade 12 certificate with mathematics, science and technical-electrical/an equivalent subject which may include an N3 subject.
- Knowledge of the legislation and relevant health and safety standards applicable to electrical installations by having passed specialised codes administered by the Department of Higher Education and Training.

Foreign qualifications

Candidates must have their foreign theoretical qualifications evaluated by the South Africa Qualification Authority (SAQA) and their practical qualifications verified by EWSETA-accredited service providers.

Department of Labour inspectors are available in all provinces for assistance with applications. Visit <http://www.labour.gov.za> for updated information and application forms.