

THE INSTITUTION OF ENGINEERS, SRI LANKA (IESL)

GUIDELINES FOR REGISTRATION AS A BUILDING SERVICES ENGINEER FOR LISTING IN 'THE DIRECTORY OF BUILDING SERVICES ENGINEERS' MAINTAINED BY THE IESL

1. About the Directory of Building Services Engineers

Planning and Building Regulations of the Urban Development Authority (UDA), as per the amended Urban Development Authority Law No. 41 of 1978, requires that Service Plans and Designs (including those related to the supply of electricity and water, sewerage, drainage, rain water harvesting, fire safety, air conditioning and mechanical ventilation) of certain categories of buildings shall be approved by qualified persons in the relevant field, who shall be Corporate Members of the IESL. The Qualified Persons who certify the Plan should be responsible to the accuracy of the Plan, ensuring its conformity with the UDA Planning and Building Regulations. Further, the Organization which register the Qualified Persons shall submit the annual members registries to the UDA.

To meet this requirement the IESL has identified Chartered Engineers who are eligible as Qualified Persons to prepare plans and designs, supervise the construction or installation of building service facilities of buildings, and to certify building services engineering aspects of the buildings.

Names of such qualified persons have been published annually, since 2012, in the IESL Directory of Building Services Engineers categorized under seventeen (17) specialties in the field of Building Services Engineering as listed below in Section 5.2.

The Directory also identifies limitations of such qualified persons to certify only the services that comes under the specialties listed against their names.

Moreover, Construction Industry Development Act, No. 33 of 2014 requires that;

- a. no person other than a qualified person whose name is included in the Register of Qualified Persons maintained by the Construction Industry Development Authority (CIDA) shall be appointed for the purpose of, or engage in the carrying out of, designing, and preparation of required contract documentation and supervision of any identified construction work.
- b. no local authority shall entertain any application for building approval for any identified construction works unless the architectural, structural, electrical and water supply, sewerage and other designs and services relating to such construction are carried out by a qualified person.

2. Professionalism of Building Services Engineers

The IESL benchmarks standards of professionalism among engineering practitioners in Sri Lanka. Charter of the IESL is awarded according to the Engineering Disciplines whereas such disciplines have branched into many sub-disciplines and specialties.

Code of Ethics of IESL requires that Engineers shall perform professional services only in the areas of their competence. To ensure that the engineer will be responsible only for his work in the area/s he is specialized and competent in it is important to identify such qualifications and competencies of the engineer and authorize his practice only to those.

IESL identifies academic qualifications, current experience, skills and competencies, commitment to ethical conduct and continuing professional development as the key criteria that are expected to be possessed and proven so by the practitioner.

IESL has issued a seal to the qualified persons listed in the directory and made it mandatory for the qualified person to use this seal when certifying service plans, designs or any other documents pertaining to all building services engineering works to the relevant authority.

3. Benefits of being registered on the Directory of Building Services Engineers

The Directory has significant benefit for:

- IESL- as a reference document when submitting detailed information of qualified persons to regulatory bodies on request
- government - as an alternative/supplement to government registers where areas of practice are restricted by legislation to particular practitioners
- employers – as a reference in the selection of qualified engineers
- developers, planners, architects etc., seeking services of Building Services Engineers
- practitioners - as a marketing/promotional tool
- the profession - as a method to raise the status and recognition of engineering in the community

4. Registration as a “Qualified Person” in the IESL Directory of Building Services Engineers

4.1 Application Procedure

Any potential candidate who wishes to register himself/herself as a Qualified Person to practice in one or more of the specialty areas in Building Services Engineering as given in section 4.2 and having satisfied the eligibility requirements set out in section 4.3, shall apply to the CEO/Executive Secretary of IESL using the specified application form (Form [CEO/BSE/FO/5](#) or [CEO/BSE/FO/6](#) whichever appropriate).

The applications for listing in the directory will be called during the period from January to March every year.

4.2 Specialty Areas of Practice (Sub Disciplines) under Building Services Engineering

The specialty areas or sub disciplines of Building Services Engineering are listed below;

1. High/Medium Voltage Power Distribution
2. Low Voltage Power Distribution
3. Extra Low Voltage Systems (MATV, CCTV, PA, Data, Telephone, Access Control, Security Systems, BMS etc.)
4. Heating, Mechanical Ventilation, Air-conditioning and Refrigeration
5. Water Supply & Drainage and Plumbing Systems
6. Storm water Drainage
7. Rain Water Harvesting
8. Wastewater Treatment
9. Solid Waste Management
10. Day Lighting and Artificial Lighting
11. Escalators and Lifts (Vertical Transportation Systems)
12. Harnessing Solar, Wind and Biomass Energy and Renewable Energy Systems
13. Communications, Telephones and IT Networks

14. Security and Alarm Systems
15. Fire Detection
16. Fire Protection
17. Facade Engineering

4.3 Eligibility Requirements

The candidate shall,

1. be a Corporate Member of the IESL and currently on the membership roll, and
2. have more than 5 years' experience after graduation in the sub discipline/s (listed in Section 4) that he/ she is applying for.

All candidates shall provide relevant documentary evidences to prove their qualifications and competencies.

4.4 Evaluation Criteria

Evaluation criteria for registration as a Qualified Person in Building Services Engineering are as follows.

No	Category	Ref. No	Evaluation Criteria	Marks (out of 100)
1.	Educational & Professional Qualifications	1.1	Degree relevant to applied discipline (essential) / Continuous Professional Development (CPD) Courses (optional)	10
		1.2	Additional related qualifications – PG Dip./ MSc / Manufacturer Training etc.	5
2	Experience in Specialty	2.1	No of years (in the applied discipline)	15
		2.2	Scale of Projects/ Number of Projects handled and responsibilities involved	10
		2.3	<u>Design Knowledge and Design Experience</u>	40
		2.4	Installation/ Construction Supervision/ Testing & Commissioning/ Project Management	10
		2.5	Operation/ Maintenance and Facility Management	10
Total Marks				100

NOTE:

In order to become eligible as a Qualified Person in Building Services Engineering in one or more of the seventeen (17) specialty areas /sub disciplines listed under Section 4.2, an applicant has to score for each of the specialties applied for,

- a. **at least 65** out of 100 marks in total and
- b. **at least 25** out of 40 marks under evaluation criterion 2.3.

4.5 Evaluation, Interview and Registration

Those who possess the required qualifications and experience shall have to face an interview conducted by an Evaluation Panel of Experts appointed by IESL who are having adequate experience in the particular specialty area/ sub discipline.

Successful candidates shall be recommended by the Panel for approval of the Council and inclusion of their names in the Directory.

CEOO/BSE/GD/01

IESL reserves the right to reexamine any Qualified person who is listed in the Directory, as and when necessary, to cope up with the advancement in the discipline.

5. Publication of the Directory of IESL Building Services Engineers

The names, specialties, contact details etc. of each Qualified Person shall be published in the IESL Directory of Building Services Engineers and updated annually by the IESL.