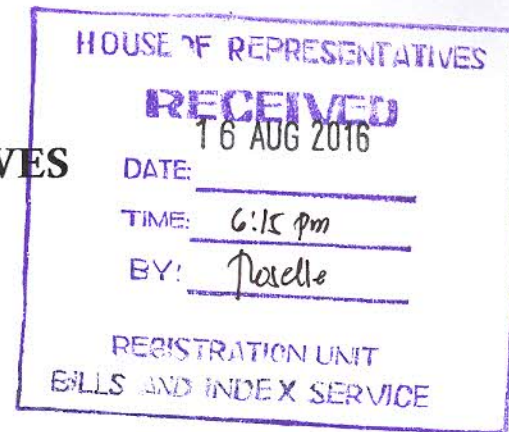


Republic of the Philippines
HOUSE OF REPRESENTATIVES
Quezon City

Seventeenth Congress
First Regular Session

HOUSE BILL NO.: 3025



Introduced by **REP. HARLIN NEIL J. ABAYON III**
Party-List- AANGAT TAYO

EXPLANATORY NOTE

The bill seeks to strengthen the practice of Electrical Engineering profession in the Philippines repealing for the purpose Republic Act No. 7920 otherwise known as the "New Electrical Engineering Law, and appropriating funds therefor. Electrical engineering is a wide discipline that provides society with many critical utilities. This discipline has significant impact on the welfare and safety of our people, on health and healthcare, the environment, quality of life, transportation, businesses and leisure of the general public. Advances in technology, globalization and the change in trends in the electrical engineering profession are challenges confronting the profession which necessitates the revision of the existing law. These revisions are aimed to further strengthen the profession and enable electrical engineers to tackle and cope with these new generation challenges.

This measure intends to integrate the classifications of electrical engineers under RA 7920 and provide for only one classification. Existing professional electrical engineers shall be issued a corresponding Certificate of Specialty in accordance with the guidelines prescribed by the Board of Electrical Engineering for the purpose. Master Electricians, on the other hand shall be given a two year period to enroll and complete the required modules on major subjects in Bachelor of Science in Electrical Engineering to qualify and be registered as electrical engineers.

These equitable innovations are necessary to continually enhance the competence of the profession through peer recognition of specialization in electrical engineering and the strengthening of the accredited national organization and other associations of electrical engineers in the country.

In view thereof, immediate passage of this bill is earnestly sought.


HARLIN NEIL J. ABAYON III

AN ACT
STRENGTHENING THE PRACTICE OF ELECTRICAL ENGINEERING
PROFESSION IN THE PHILIPPINES REPEALING FOR THE PURPOSE REPUBLIC
ACT No. 7920 OTHERWISE KNOWN AS THE “NEW ELECTRICAL ENGINEERING
LAW”, AND APPROPRIATING FUNDS THEREFOR

Be it enacted by the Senate and House of Representatives of the Philippines in Congress assembled:

SECTION 1. Short Title. - This act shall be known as the “Comprehensive Electrical Engineering Act.”

SEC. 2. Statement of Policy. - The State recognizes the importance of electrical engineering in saving lives, public safety, economic development and nation-building. Hence, it shall develop and nurture competent, ethical, globally competitive and well-rounded electrical engineers who shall observe the highest standards of excellence and whose professionalism shall be fostered through the administration of transparent, credible and relevant licensure examinations, a system of registration and self-regulation, and through continuing education.

SEC. 3. Section 2 (Definition of Terms) of RA 7920 is hereby amended to read as follows:

“Sec. 2. Definition of Terms.- As used in this Act, the following terms shall mean:

a. Practice of Electrical Engineering – a person is deemed to be in the practice of electrical engineering when he renders or offers to render **[professional]** electrical engineering service in for of:

xxx

xxx

(6) Teaching of electrical engineering **[professional]** subjects;

Xxx

p. Electrical system refers to the following:

1. Lighting system (Illumination engineering, decorative, intelligent lighting & control);
2. Power system (Alternating Current and Direct Current);
3. Power generation, transformation, transmission and distribution systems;
4. Power quality monitoring and management systems;
5. Power factor correction system;
6. Automatic voltage regulation systems;
7. Building management and automation systems;

8. Energy converter, inverter, drives systems;
9. Renewable energy systems;
10. Electrical devices, apparatus, machineries and equipment;
11. Power electronics systems;
12. Grounding/earthing, bonding system;
13. Surge and lightning protection system;
14. Process and machinery instrumentation, control and automation, measurement, monitoring and management system such as Distributed Control System, Programmable Logic Controller, Safety Instrumented System, Supervisory Control and Data Acquisition, Computer-based control systems, etc.;
15. Electrical safety system / public address / evacuation system;
16. Fire, liquid and gas leak detection, alarm and suppression system;
17. Emergency and standby power system;
18. Uninterruptible power supply system;
19. Energy storage and battery system;
20. Electric heating and space heating system;
21. Structured cabling system;
22. Electric charging system;
23. Cathodic Protection System;
24. Technologies and electro-technical systems integration;
25. Electric billboards, signages, traffic and street lighting system;
26. Medical electricity;
27. Wire and cable engineering;
28. Extra Low Voltage (ELV) systems;
29. Electric insulation and dielectric systems;
30. Magnetic and electromagnetic systems;
31. Various technologies, electro-technical systems and phenomena (electrostatic, electromagnetic, electro-mechanical, electro-Chemical, thermoelectric, hydroelectric, electro-acoustic, electronics, piezoelectric, photoelectric, pyroelectric, triboelectric, electroluminescence, wireless electricity, electro-optics, electro-pneumatics, electro-hydraulics, plasma, electrovibration, dielectric, magnetic, ferroelectric, photovoltaic, thermionic, thermocouple, electrohydrodynamics, electrotherapy etc);
32. Other devices, systems and apparatus utilizing electrical energy as provided in the Philippine Electrical code and Philippine accepted international electrical standards and codes, except voice and data communication, telecommunication, satellite, broadcast, computer, information technology and small electronic systems shall be for ECE.

q. Facilities covered in the practice of electrical engineering includes the following:

1. Agricultural lands, farms, structures, infrastructures and facilities (such as barns, warehouse, rice mills, drying systems, machineries among others) etc.
2. Watercrafts (ships, submarine, floating buildings/structures)
3. Marinas and boatyards/dockyards
4. Electrical transportation (locomotives, electric vehicles, hybrids)
5. Mobile homes and recreational vehicles
6. Industrial plants (manufacturing plants, chemical plants, refineries, basic/light/medium/heavy industries etc.)
7. Power plants/stations (dendrothermal, wind farms, solar farms, geothermal, Hydroelectric, nuclear, tidal etc.)
8. Substations and switchyards
9. Transmission and distribution lines.
10. Low, medium and high-rise buildings (sky scrapers)
11. Commercial buildings (shopping malls, arcades, cinemas, theatres, offices, banks, call centers and etc.)
12. Residential buildings (including but not limited to condominiums, hotels, motels, townhouses, subdivisions, resettlement homes etc.)
13. Institutional buildings (hospitals, churches, museums, school, offices scientific research facilities, laboratories and other government building etc.)
14. Parks (trailers, theme parks, memorial parks, parking area, golf courses etc.)
15. Stadia, gymnasias, arenas, coliseum, sports complex and etc.
16. Carnival, circuses, fairs and similar events
17. Airfields, airports, airstrips etc.
18. Military, navigational and aerospace facilities and installations
19. Quarries & Mining industry
20. Offshore facilities
21. Civil structures with electrical systems (roads, bridges, dams, tunnels, docks, ports, railways and train stations, shipyards, oil depots, gasoline stations etc.)
22. Server rooms, data centers, telecommunications and broadcast facilities, but not limited to TV production, advertising, film making and others (electrical systems only, electronics systems by ECE).
23. All buildings, structures, infrastructures and other facilities that use electrical energy as provided in the Philippine Electrical Code.

r. Specialty refers to the specific fields which are taken in advance study such as a masteral degree in electrical engineering and those requiring specialized knowledge, training, experience, competence and expertise in various fields in electrical engineering including:

1. Specialty on power generation which primarily refers to generation of electrical energy like power plants with a load capacity of more than five hundred kilovolt ampere (500kVA) in any form and source like solar, wind, biomass, hydroelectric, nuclear and the likes;
2. Specialty on power transmission, distribution and substation which involves the delivery of electrical energy from power stations to receiving and employing rated voltage from fifteen thousand volts (15kV) and above which is commonly used in the Philippines and carrying or transmitting power excess of five hundred kilovolt ampere (500kVA);
3. Specialty on power transformers and other electric energy conversion equipments which carries and transforming electric energy of more than five hundred kilovolt ampere (500kVA);
4. Specialty on electrical machines and other utilization equipments such motors, heaters, furnace and others of any kind which consumes electric energy of more than five hundred kilovolt ampere (500kVA);
5. Specialty on watercrafts and any other waterborne units with self-installed or own power plant with a load capacity of more than five hundred kilovolt ampere (500kVA);
6. Specialty on electric locomotive which has embedded power plant with a load Capacity of more than five hundred kilovolt ampere (500kVA);
7. Specialty on electrical system design and installation or operation and maintenance of residential, commercial, industrial and institutional building and structures such as high-rise buildings, stadium, malls and the likes with an aggregate electrical load of more than five hundred kilovolt ampere (500kVA);
8. Specialty on electrical systems in hazardous locations like gasoline stations, chemical Plants, oil refineries, oil depots, off shore oil rigs and others with a connected load in excess of five hundred kilovolt-ampere (500kVA) and such other competencies to be determined by the Board.

s. "Electrical documents" also referred to "Documents" as used in this Act, means the electrical design, electrical plans, drawings, specifications, technical documents, data sheets, material take-off/estimates, bill of quantities, calculations,

permits and other instruments of service prepared, signed and sealed by a licensed electrical practitioner.

t. "Electrical permit" means the mandated document issued by any regulating government entity based on electrical documents authorizing the repair, installation, construction, addition, upgrading, modification, retrofitting, renovation, restoration, development, redevelopment, remodelling, testing, commissioning and utilization of electricity within and surrounding of building or structure. It includes but not limited to the Electrical Permit, Certificate of Final Electrical Inspection (CFEI) and other related documents;

u. "Electrical plans" also referred to as "Plans" as used in this Act, which includes but not limited to, single line/elementary/interconnection/wiring/schematic diagrams; block diagrams; logic diagrams; load/cable/panelboard schedules; lighting and power systems; lightning protection/grounding; load calculations; short circuit calculation; illumination calculations; voltage drop calculations; fire, liquid and gas detection and alarm system layout and details; paging system layout and details; emergency/evacuation systems; auxiliaries systems; signaling/communication system layout and details; structured cabling systems; control/ automation/ instrumentation system layout and details; device/equipment installation layout and details; raceway/cable tray/cable system layouts and details and others as enumerated in this Section;

v. "Electrical Safety Certificate Sticker" is a specially manufactured piece of paper with adhesive back that is issued by the approving agency of the government to the practicing electrical engineers/registrants that can be fastened to a visible surface of the establishment containing the logo of the issuing office/agency, control number, the name of the establishment and owner, name and signature of the practitioner who conducted inspection and who issued the electrical safety certificate, PRC registration number, date of inspection, notes/findings and record logbook page number.

SEC. 4. A new provision is hereby inserted to read as follows:

"SEC. 4. CATEGORIES OF ELECTRICAL ENGINEERS AND THEIR RESPECTIVE SCOPE OF PRACTICE. –

A) PROFESSIONAL ELECTRICAL ENGINEERS (PEES) ARE THOSE WHO ARE REGISTERED AND AUTHORIZED TO PRACTICE ELECTRICAL ENGINEERING WITH THE FOLLOWING SCOPE, LIMITATIONS AND SPECIALIZATIONS:

1. PROFESSIONAL ELECTRICAL ENGINEER WITH GENERAL SPECIALTY ARE THE PROFESSIONAL ELECTRICAL ENGINEERS UNDER REPUBLIC ACT (RA) NO. 7920 OTHERWISE KNOWN AS THE "NEW ELECTRICAL ENGINEERING LAW", AND THOSE WHO MAY QUALIFY AFTER HAVING AT LEAST THREE (3) SPECIFIC SPECIALTIES UNDER THE PROVISIONS OF THIS ACT. THE ELECTRICAL ENGINEER WILL BE ISSUED A GENERAL CERTIFICATE OF SPECIALTY (COS) BY THE BOARD AND SHALL HAVE THE AUTHORITY TO PRACTICE ELECTRICAL ENGINEERING IN FULL SCOPE INCLUDING THE AUTHORITY TO SIGN AND SEAL ELECTRICAL PLANS AND OTHER RELATED DOCUMENTS IN FULL CAPACITY WITHOUT LIMITATIONS;

2. PROFESSIONAL ELECTRICAL ENGINEER WITH SPECIFIC SPECIALTY ARE THE ELECTRICAL ENGINEERS UPON APPROVAL AND ISSUANCE OF SPECIFIC COS BY THE BOARD UNDER THIS ACT AND SHALL HAVE THE AUTHORITY TO PRACTICE ELECTRICAL ENGINEERING IN ALL SCOPE INCLUDING THE AUTHORITY TO SIGN AND SEAL ELECTRICAL PLANS AND OTHER RELATED DOCUMENTS BUT LIMITED TO THE CAPACITY COVERED BY THE SPECIFIC SPECIALTY REGARDLESS OF PHASE AND RATED VOLTAGES;

B) ELECTRICAL ENGINEERS AS GENERAL PRACTITIONERS ARE THE REGISTERED ELECTRICAL ENGINEERS UNDER RA NO. 7920 AND THOSE WHO MAY BE REGISTERED AS GENERAL PRACTITIONERS UNDER THIS ACT. THEY SHALL HAVE THE AUTHORITY TO PRACTICE ELECTRICAL ENGINEERING IN ALL SCOPE INCLUDING THE AUTHORITY TO SIGN AND SEAL ELECTRICAL PLANS AND OTHER RELATED DOCUMENTS BUT LIMITED TO THE CAPACITY UP TO FIVE HUNDRED KILOVOLT-AMPERE (500KVA) REGARDLESS OF PHASE AND RATED VOLTAGES;

C) MASTER ELECTRICIANS ARE THOSE REGISTERED MASTER ELECTRICIANS UNDER RA NO. 7920 AND THOSE WHO MAY QUALIFY UNDER THIS ACT, WHO SHALL HAVE THE AUTHORITY TO PRACTICE

ELECTRICAL ENGINEERING WITH THE FOLLOWING SCOPE AND LIMITATIONS:

1. ACTUAL INSTALLATION, WIRING, OPERATION, MAINTENANCE AND REPAIR OF ALL ELECTRICAL SYSTEMS AND IN THE FACILITIES DEFINED IN THIS ACT BUT LIMITED UP TO FIVE HUNDRED KILOVOLT-AMPERE (500KVA) AT RATED VOLTAGE UP TO SIX HUNDRED VOLTS (600V);
2. SUPERVISION AND INSPECTION INCLUDING THE AUTHORITY TO SIGN AND SEAL ELECTRICAL PLANS AND OTHER RELATED DOCUMENTS LIKE ELECTRICAL PERMIT, CERTIFICATE OF ELECTRICAL SAFETY AND CERTIFICATE OF FINAL ELECTRICAL INSPECTION SPECIFICALLY TO SINGLE FAMILY DWELLING UNITS AND LIMITED UP TO TWENTY-FIVE KILOVOLT-AMPERE (25KVA), SINGLE PHASE, REGARDLESS OF RATED VOLTAGES, PROVIDED THAT IT SHALL BE PROPERLY ENTERED IN THE ISSUED RECORD LOGBOOK OF THE REGISTRANTS, THUS THE PAGE NUMBER SHALL BE INDICATED OR ELSE IT SHALL NOT BE VALID AND SHALL BE A VIOLATION OF THIS ACT.”

SEC. 5. Section 3 (Composition of the Board) of RA 7920 is hereby amended to read as follows:

“Section 3. - PROFESSIONAL REGULATORY BOARD OF ELECTRICAL ENGINEERS. - THERE IS HEREBY CREATED A COLLEGIAL BODY UNDER THE ADMINISTRATIVE SUPERVISION AND CONTROL OF THE PROFESSIONAL REGULATION COMMISSION (PRC), WHICH SHALL BE CALLED THE PROFESSIONAL REGULATORY BOARD FOR ELECTRICAL ENGINEERS, HEREINAFTER TO BE REFERRED TO AS THE BOARD. THE BOARD SHALL BE COMPOSED OF A CHAIRPERSON AND TWO (2) MEMBERS TO BE APPOINTED BY THE PRESIDENT OF THE REPUBLIC OF THE PHILIPPINES. THE RECOMMENDEES OF THE PRC SHALL BE CHOSEN FROM THE NOMINEES OF THE INTEGRATED AND ACCREDITED PROFESSIONAL ORGANIZATION OF ELECTRICAL ENGINEERS (APOEE) WHOSE NOMINATION COMMITTEE MUST HAVE A REPRESENTATIVE FROM REGISTERED ASSOCIATIONS OF ELECTRICAL ENGINEERS AND ALLIED FIELDS.”

SEC. 6. Section 5 (Qualifications of Board Members) of RA 7920 is hereby amended to read as follows:

“Sec 5. Qualifications. – THE CHAIRPERSON AND MEMBERS OF THE BOARD MUST, AT THE TIME OF NOMINATION:

- a) xxx;
- b) xxx;
- c) xxx;
- d) xxx;
- e) Be **[a professional]** an electrical engineer with a valid certificate of registration and **[valid]** professional license duly qualified to practice electrical engineering in the Philippines, AND WITH AT LEAST A MASTERAL DEGREE IN ELECTRICAL ENGINEERING, PUBLIC ADMINISTRATION OR OTHER ALLIED MANAGEMENT FIELD;
- f) xxx; and
- g) xxx.”

SEC. 7. Section 6 (Term of Office) of RA 7920 is hereby amended to read as follows:

“Sec. 6. Term of Office. – The CHAIRPERSON AND MEMBERS of the Board shall hold office for a term of three (3) years from the date of appointment or until their successors shall have been appointed and qualified. They may, however, be reappointed for a second term. Each member shall qualify by taking an oath of office before entering upon the performance of duties.

Vacancies in the Board shall be filled by the President OF THE PHILIPPINES from the list of recommendees by the CHAIRPERSON **[Commissioner]** who were chosen from the list of nominees submitted by the APOEE. APPOINTMENT TO ANY VACANCY SHALL BE ONLY FOR THE UNEXPIRED TERM OF THE PREDECESSOR.”

SEC. 8. Section 7 (Removal of Board Members) of RA 7920 is hereby amended to read as follows:

“Sec. 7. Removal of Members of the Board. – Any member of the Board may be removed by the President of the Philippines, upon the recommendation of the CHAIRPERSON **[Commissioner]** for neglect of duty, incompetence, malpractice, commission or tolerance of irregularities in the examinations, or for unprofessional, unethical, or dishonorable conduct, after having been given the opportunity to defend oneself in a proper administrative investigation.”

SEC. 9. Section 8 (Compensation of Chairman and Board Members) of RA 7920 is hereby amended to read as follows:

“Sec. 8. Compensation of CHAIRPERSON [**Chairman**] and Members of the Board. – The CHAIRPERSON [**Chairman**] and members of the Board shall receive COMPENSATION AND ALLOWANCES COMPARABLE TO THE COMPENSATION AND ALLOWANCES RECEIVED BY THE MEMBERS OF THE OTHER EXISTING PROFESSIONAL REGULATORY BOARDS UNDER THE PRC, AS PROVIDED FOR IN THE GENERAL APPROPRIATIONS ACT.”

SEC. 10. Section 9 (Executive Officer of the Board) of RA 7920 is hereby amended to read as follows:

“Sec 9. Executive Officer of the Board. – The CHAIRPERSON [**Commissioner**] shall be the executive officer of the Board and shall conduct the examination given by the Board and shall designate any subordinate officer of the PRC to act as secretary and custodian of all records including all examination papers and minutes of the deliberations of the Board.”

SEC. 11. Section 11 (Registration and License Required) of RA 7920 is hereby amended to read as follows:

“Sec. 11. Registration and License Required. – A valid certificate of registration and [**valid**] professional license, AND IF APPLICABLE, CERTIFICATE OF SPECIALTY FROM THE PRC [**Commission**] are required before any person is allowed to practice electrical engineering in the Philippines except as otherwise allowed under this Act.”

SEC. 12. Section 12 (Examination Fees) of RA 7920 is hereby amended to read as follows:

“Sec. 12. Examination Fees. – ALL APPLICANTS FOR THE ELECTRICAL ENGINEERING LICENSURE EXAMINATIONS SHALL BE SUBJECT TO PAYMENT OF FEES PRESCRIBED BY THE PRC: *PROVIDED*, THAT NINETY PERCENT (90%) OF THE FEES IS TO BE TREATED AS A SPECIAL FUND FOR THE PROGRAMS, PROJECTS AND ACTIVITIES OF THE PRC AND THE REMAINING TEN PERCENT (10%) SHALL BE SET ASIDE AS A TRUST FUND FOR THE ESTABLISHMENT AND MAINTENANCE OF THE CENTER FOR CPD AND RESEARCH.”

SEC. 13. Section 13 (Registration Fees, License Fees and Fines) of RA 7920 is hereby amended to read as follows:

“Sec. 13. Registration Fees, License Fees and Fines. – All applicants for registration and license to practice as **[professional]** electrical engineers **[and registered master electrician]** shall be subject to the payment of registration fees, license fees, and fines in case of violation of the pertinent rules and regulations for the amounts prescribed by the Board and approved by the PRC [Commission]: Provided, That fifty percent (50%) from these collections are to be treated as a special fund for programs, projects and activities of the PRC **[Commission]** and the other fifty percent (50%) shall be set up in a separate special fund for the supervisory and regulatory functions of the Board.”

SEC. 14. Section 14 (Exemption from Examination and Registration) of RA 7920 is hereby amended to read as follows:

“Sec. 14. Exemption from Examination and Registration.

a) xxx

b) No registration with the Board shall be required of the following:

1. Engineering students, apprentices and other persons employed or acting as subordinates of, or undergoing training under a person holding a valid certificate of registration, **[and a valid]** professional license AND IF APPLICABLE, CERTIFICATE OF SPECIALTY under this Act;
2. Persons in charge of or supervising the operation, tending and maintenance of an electric generating set for private use employing voltages not exceeding two hundred fifty volts (250V) and capacity not exceeding TWENTY-FIVE **[fifty]** kilovolt amperes (25 kVA): *Provided, that* the owner or operator shall be required to have the electric generating set periodically inspected at intervals of not more than one (1) year by **[a professional]** AN ELECTRICAL ENGINEER **[a registered electrical engineer]** of a national, city, provincial or municipal government authority exercising legal jurisdiction over electrical installations; and
3. GRADUATES OF THREE-YEAR COURSES SUCH AS ELECTRICAL TECHNOLOGY COURSE OR ITS EQUIVALENT, SHALL INSTEAD ACQUIRE A NATIONAL CERTIFICATE (NC) OR

CERTIFICATE OF COMPETENCY (COC) FROM THE TECHNICAL
EDUCATION AND SKILLS DEVELOPMENT AUTHORITY
(TESDA).”

SEC. 15. Section 15 (Holding of Examinations) of RA 7920 is hereby amended to read as follows:

“Sec. 15. Schedule of Examinations. – Examinations for the practice of electrical engineering in the Philippines shall be given twice a year IN PLACES AND **[the City of Manila]** on dates, AS THE PRC MAY DESIGNATE IN A RESOLUTION PROVIDING FOR THE MASTER SCHEDULE OF ALL LICENSURE EXAMINATIONS PURSUANT TO SECTION 7 (D) OF R. A. NO. 8981, OTHERWISE KNOWN AS THE “PRC MODERNIZATION ACT OF 2000” **[that the Board may recommend for determination of scheduling]**. The Board shall schedule interview/oral examination of every applicant for registration as **[professional]** electrical engineer only at the office of the Commission.

To qualified applicants for examination, notice of admission shall be issued not later than ten (10) days prior to the first day of examination.”

SEC. 16. Section 16 (Qualifications of Applicant for Registration as Professional Electrical Engineer) of RA 7920 is hereby amended to read as follows:

“Sec. 16. Qualifications of Applicants for Registration as Professional Electrical Engineer. AN APPLICANT **[any person applying]** for registration as professional electrical engineer shall, PRIOR TO THE DATE OF REGISTRATION, establish to the satisfaction of the Board that he possesses the following qualifications:

- a) MUST BE a citizen of the Philippines;
- b) MUST BE of good reputation with high moral values;
- c) MUST NOT HAVE been convicted by final judgment of an offense involving moral turpitude;
- d) MUST BE a holder of a degree of Bachelor of Science in Electric Engineering (BSEE) from a university, school, college, academy or institute duly constituted, recognized and accredited by the Philippine government; and
- e) MUST BE **[a registered]** an electrical engineer with valid certificate of registration and professional license and with four (4) years or more of active

practice reckoned from the date of his registration as GENERAL PRACTITIONER [**registered electrical engineer**].”

SEC. 17. Section 17 (Qualifications of Applicants for Registered Electrical Engineer Examination) of RA 7920 is hereby amended to read as follows:

“Sec. 17. Qualifications of Applicants for [**Registered**] Electrical Engineer Examination. AN APPLICANT FOR THE ELECTRICAL ENGINEER EXAMINATION SHALL, PRIOR TO THE DATE OF EXAMINATION ESTABLISH TO THE SATISFACTION OF THE BOARD THAT THE FOLLOWING QUALIFICATIONS ARE MET:

- a) MUST BE a citizen of the Philippines;
- b) MUST at least twenty-one (21) years of age;
- c) MUST BE of good reputation with high moral values;
- d) MUST BE a degree holder of a Bachelor of Science in Electrical Engineering (BSEE) from a university, school, college, academy or institute duly constituted, recognized and accredited by the Philippine government; and
- e) MUST NOT HAVE been convicted by final judgment of an offense involving moral turpitude.”

SEC. 18. Section 18 (Qualifications of Applicants for Registered Master Electrician Examination) of RA 7920 is hereby amended to read as follows:

“Sec. 18. Qualifications of Applicants for [**Registered**] Master Electrician Examination. - AN APPLICANT FOR THE MASTER ELECTRICIAN SHALL, PRIOR TO THE DATE OF EXAMINATION ESTABLISH TO THE SATISFACTION OF THE BOARD THAT THE FOLLOWING QUALIFICATIONS ARE MET:

- a) MUST BE a citizen of the Philippines;
- b) MUST at least eighteen (18) years of age;
- c) MUST BE of good reputation with high moral values;
- d) MUST not been convicted by final judgment by the court of an offense involving moral turpitude; and
- e) MUST HAVE any of the following technical backgrounds:

xxx

xxx

xxx

4. Has completed a four-year high school education or its equivalent and, in addition, has subsequent specific record of at least five (5) years of apprenticeship in electric wiring, installation, operation and maintenance of utilization devices and equipment, **AND HAS COMPLETED TESDA SKILL COMPETENCY REQUIREMENTS AND OBTAINED CERTIFICATION THEREOF, AT LEAST HAVING NC II AND HIGHER CERTIFICATES.**”

SEC. 19. Section 19 (Scope of Examination) of RA 7920 is hereby amended to read as follows:

“Sec. 19. Scope of Examination. – As a prerequisite for registration as professional electrical engineer, **GENERAL PRACTITIONER [registered electrical engineer]** and **[registered]** master electrician, the applicant shall comply with the following requirements:

a) Professional Electrical Engineer – For the purpose of confirming the service record and clarifying the certificate of experience submitted by the applicant for registration as a professional electrical engineer **EITHER WITH GENERAL OR SPECIFIC SPECIALTY**, a **WRITTEN [oral or written]** examination shall be conducted **BY THE BOARD BASED ON THE FIELD OF EXPERIENCE OR SPECIALTY APPLIED FOR.**

(1) The certified experience record **SHALL SPECIFY** from the date he took oath as an **[a registered]** electrical engineer the inclusive dates, companies worked for, description of specific responsibilities, significant accomplishments as well as the name and position of immediate supervisors, **IF ANY;**

[(2) Technical paper covering an evaluation, an analysis, a study or a critical discussion of an electrical engineering project or subject, on one or several technical aspects such as: design, construction, installation, commissioning, testing, operation, maintenance, repair, research and the like. The technical paper shall be supported by engineering principles and data. Published or unpublished scientific paper or treatise on electrical engineering theories and applications may be considered as complying with the requirement;

[(3) Three (3) certifications signed by three (3) professional electrical engineers to the effect that the experience record submitted by the applicant is factual and that the technical paper submitted was actually prepared by the applicant.]

(4) THE APPLICANT MUST OBTAIN A PASSING MARKS ON THE WRITTEN EXAMINATION IN ORDER TO QUALIFY FOR REGISTRATION AS A PROFESSIONAL ELECTRICAL ENGINEER. THE SCOPE OF

EXAMINATION SHALL BE IN ACCORDANCE WITH THE SPECIALTY PROVIDED IN THIS ACT AND TO BE PROMULGATED BY THE BOARD.

b) General Practitioner [**Registered electrical engineer**] – The applicant FOR REGISTRATION AS GENERAL PRACTITIONER shall pass a written examination on different subjects or group of subjects as follows:

1) Mathematics, such as: algebra, trigonometry, analytic geometry, differential calculus, integral calculus, differential equations, complex numbers, probability and statistics, advanced engineering mathematics including matrices, power series, Fourier analysis, Laplace transforms, and others. The weight is TWENTY [**twenty-five**] percent (20%) [**(25%)**].

2) Engineering sciences and allied subjects, such as general chemistry, college physics, computer fundamentals and programming, engineering materials, engineering mechanics, fluid mechanics, strength of materials, thermodynamics, electrical engineering law, engineering accounting and economics, engineering management, contracts and specifications, code of professional ethics and others. The weight is TWENTY [**thirty**] percent 20% [**(30%)**].

3) Electrical engineering professional, such as: electrical circuits, electronic theory and circuits, energy conversion, power generation, transmission and distribution, instrumentation and measurement, circuit and line protection, control and automation systems, principles of communication, electrical machines, electrical equipment, components and devices, electric systems, power plant, electronic power equipment and others. The weight is THIRTY-FIVE [**forty-five**] percent 35% [**(45%)**].

4) ELECTRICAL ENGINEERING DESIGNS BUT NOT LIMITED TO: ILLUMINATION DESIGN, BUILDING WIRING DESIGNS, POWER SYSTEM DESIGN, DISTRIBUTION DESIGN, SUBSTATION DESIGN, TRANSMISSION DESIGN, TRANSFORMER DESIGN, INSTRUMENTATION, CONTROL AND AUTOMATION DESIGN AND AUXILIARY SYSTEM DESIGN IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE, PARTS 1 AND 2 AND OTHERS. THE WEIGHT IS TWENTY-FIVE PERCENT (25%).

xxx

xxx

c) [**Registered**] Master Electrician - The applicant FOR REGISTRATION AS MASTER ELECTRICIAN shall pass a written examination on different subjects or group of subjects as follows:

1) Technical subjects:

- i. Ohm's Law: Calculations for resistance, current, voltage and power for direct current and alternating current circuits;
- ii. Electrical machines: Description and operating principles of motors, generators and transformers;
- iii. Control equipment: Description and function of fuses, overload relays, safety switches, magnetic switches, circuit breakers, star-delta motor starters, transformer-type motor starters, D.C. motor starter;.
- iv. Electrical components: Description of resistors, capacitors, inductors and semi-conductors;
- v. Maintenance and repair: Description of the procedures in the maintenance of electrical machinery;
- vi. Test equipment: Types and uses of measuring instruments;
- vii. Electrical engineering law provisions pertaining to registered master electrician; and
- viii. Other related subjects as may be prescribed by the Board.

2) Philippine Electrical Code, Parts 1 and 2:

- i. General requirements for installation of electric wiring and equipment;
- ii. Approved wiring methods;
- iii. Types of wiring materials and wiring devices;
 - iv. Installation of switchboard and panel boards;
- v. Installation in hazardous locations;
- vi. Wiring diagrams of different types of motor starters with motor protection;
- vii. Drawing symbols and wiring plants; and
- viii. Other related subjects as may be prescribed by the Board.

Xxx

Xxx

Xxx.”

SEC. 20. Section 20 (Report of Ratings) of RA 7920 is hereby amended to read as follows:

“SEC. 22. Report of Ratings. - The Board **[of Electrical Engineering]** shall, within SIXTY (60) **[one hundred fifty (150)]** days after the date of completion of the examinations, report the ratings obtained by each candidate to the PRC.”

SEC. 21. Section 22 (Oath) of RA 7920 is hereby amended to read as follows:

“Sec. 22. Oath. – All successful candidates in the examination shall be required to take a professional oath before the Board or any government official authorized to administer oaths prior to entering upon the practice of **[professional] electrical engineering [registered electrical engineer, and registered master electrician].**”

SEC. 22. Section 23 (Issuance of Certificates of Registration and Professional Licenses) of RA 7920 is hereby amended to read as follows:

“Sec. 23. Issuance of Certificates of Registration and Professional Licenses. – The registration of AN **[a professional] electrical engineer [registered electrical engineer]** or registered master electrician commences from the date the electrical engineer’s name is entered in the roll of registrants or licensees for the profession. Every registrant who has satisfactorily met all the requirements specified in this Act, upon payment of the registration fee, shall be issued a certificate of registration as **[a professional] electrical engineer [registered electrical engineer]** or registered master electrician that shows the full name of the registrant and serial number, signed by the CHAIRPERSON OF THE PRC **[Commissioner]** and the CHAIRPERSON **[by the Chairman]** and members of the Board stamped with the official seal, as evidence that the person named therein is entitled to practice the profession with all rights and privileges appurtenant thereto. The certificate shall remain in full force and effect until withdrawn, suspended, or revoked.

A professional license signed by CHAIRPERSON OF THE PRC **[Commissioner]** and bearing the registration number and date of issuance thereof and the month of expiry or renewability shall likewise be issued to every registrant who has paid the registration fees for three (3) consecutive years **[and has complied with the requirements of the Continuing Professional Education (CPE)]** unless exempted therefrom. This license will serve as evidence that the licensee can lawfully practice the profession until the expiration of its validity.”

SEC. 22. A new section is hereby amended to read as follows:

“Sec. 23-A. Certificate of Specialty. – Certificate of Specialty shall be issued by the Board, subject to the approval of the PRC, to an engineer who have complied the requirements provided in this Act”

SEC. 23. Section 24 (Continuing Professional Education Program) of RA 7920 is hereby amended to read as follows:

“Sec. 24. Continuing Professional DEVELOPMENT **[Education]** (CPD) Program - The CPD guidelines shall be prescribed and promulgated by the Board subject to the approval of the PRC, after consultation with the accredited professional organization of electrical engineers (APOEE), other associations of the electrical engineering profession and other concerned sectors. The Board shall incorporate in the said guidelines the creation of a CPD council that shall composed of officers coming from the Board, the PRC, the APOEE, and other concerned sectors. It shall be vested with the functions, duties and responsibilities to implement the guidelines and shall have the juridical personality that is distinct and separate from and independent of the Board, the PRC **[Commission]**, THE APOEE, and other associations of the electrical engineering profession.”

SEC. 24. Section 25 (Integration of the Electrical Engineering Professions) of RA 7920 is hereby amended to read as follows:

“Sec. 25. THE INTEGRATED ACCREDITED PROFESSIONAL ORGANIZATION OF ELECTRICAL ENGINEERS (APOEE). - THERE SHALL BE ONLY ONE INTEGRATED NATIONAL ORGANIZATION OF ELECTRICAL ENGINEERS WHICH SHALL BE RECOGNIZED BY THE BOARD AMONG ALL REGISTERED ASSOCIATIONS OF ELECTRICAL ENGINEERS NATIONWIDE. EVERY ELECTRICAL ENGINEER SHALL, UPON REGISTRATION WITH THE BOARD, *IPSO FACTO* BECOME A MEMBER OF THE APOEE. MEMBERSHIP IN THE APOEE SHALL NOT BE A BAR TO MEMBERSHIP IN OTHER ASSOCIATIONS OF ELECTRICAL ENGINEERS TO PROVIDE THE MEMBERS OF THE PROFESSION THE FREEDOM TO CHOOSE THE ASSOCIATION THEY PREFER AND TO FURTHER ENHANCE COMPETENCE AND THE SYSTEM OF CHECKS AND BALANCES IN THE ELECTRICAL ENGINEERING PROFESSION. THE INTEGRATED APOEE SHALL HAVE THE POWER TO PROMULGATE RULES AND REGULATIONS FOR THE MEMBERSHIP AND ELECTION OF OFFICERS IN THE APOEE PROVIDED HOWEVER, THAT EVERY ASSOCIATION OF ELECTRICAL ENGINEERS SHALL HAVE A REPRESENTATIVE THEREOF.

PROVIDED HOWEVER, SPECIALISTS IN EACH FIELD MAY FORM A SPECIALTY ORGANIZATION OF ELECTRICAL ENGINEERS (SOEE).

PROVIDED, THAT THIS SOEE SHOULD BE AFFILIATED TO AND RECOGNIZED BY THE APOEE. PROVIDED FURTHER, THAT THERE IS ONLY ONE SOEE FOR EACH FIELD OF ELECTRICAL ENGINEERING, WITHOUT PREJUDICE TO MEMBERSHIP IN OTHER VOLUNTARY PROFESSIONAL ORGANIZATIONS. ANY DOCUMENTS ISSUED BY THE INTEGRATED APOEE SHOULD NOT BE A PART OF THE REQUIREMENT IN THE ISSUANCE AND RENEWAL OF PRC LICENSE.”

SEC. 25. Section 26 (Seal of Professional Electrical Engineer) of RA 7920 is hereby amended to read as follows:

“Sec. 26. ISSUANCE AND USE OF SEAL & RECORD LOGBOOK. – A SEAL AND A RECORD LOGBOOK OF A DULY LICENSED PROFESSIONAL ELECTRICAL ENGINEER AND GENERAL PRACTITIONER SHALL BE PRESCRIBED BY THE BOARD BEARING THE REGISTRANT’S NAME, THE CERTIFICATE NUMBER AND THE LEGEND “PROFESSIONAL ELECTRICAL ENGINEER OR GENERAL PRACTITIONER” AS THE CASE MAYBE. IT MAY BE OBTAIN BY EACH REGISTRANTS UPON REGISTRATION. PLANS, SPECIFICATIONS, REPORTS AND OTHER PROFESSIONAL DOCUMENTS PREPARED BY OR EXECUTED UNDER THE IMMEDIATE SUPERVISION OF AND ISSUED BY A LICENSEE, SHALL BE STAMPED ON EVERY SHEET WITH SAID SEAL AND SHALL BE RECORDED ON THE ISSUED RECORD LOGBOOK PARTICULARLY THE TITLE OR NAME OF THE DOCUMENT, NAME OF THE PROJECT AND OWNER, DATE AND NUMBER OF PAGES/SHEETS WHEN FILED WITH THE IMPLEMENTING AGENCY OF THE GOVERNMENT OR WHEN SUBMITTED OR USED PROFESSIONALLY: *PROVIDED, HOWEVER*, THAT IT IS UNLAWFUL FOR ANYONE TO STAMP OR SEAL ANY DOCUMENT WITH SAID SEAL AFTER THE REGISTRANT’S NAME HAS BEEN DELISTED FROM THE ROSTER OF PEES OR REES OR AFTER THE VALIDITY OF HIS PROFESSIONAL LICENSE HAS EXPIRED OR HAS BEEN REVOKED, UNLESS SAID CERTIFICATE SHALL HAVE BEEN RENEWED OR RE-ISSUED. OTHER PROVISIONS OF THE USE OF SEAL:

A) NO OFFICER OR EMPLOYEE OF THIS REPUBLIC, CHARTERED CITIES, PROVINCES AND MUNICIPALITIES, NOW OR HEREAFTER CHARGED WITH THE ENFORCEMENT OF LAW, ORDINANCES OR REGULATIONS RELATIVE TO ELECTRICAL INSTALLATIONS, SHALL

ACCEPT OR APPROVE ANY ELECTRICAL PLANS OR SPECIFICATIONS AND OTHER RELATED DOCUMENTS WHICH HAVE NOT BEEN PREPARED AND SUBMITTED IN FULL ACCORD WITH ALL THE PROVISIONS OF THIS ACT; NOR SHALL ANY PAYMENTS BE APPROVED BY ANY SUCH OFFICER FOR ANY WORK, THE PLANS AND SPECIFICATIONS FOR WHICH HAVE NOT BEEN SO PREPARED AND SIGNED AND SEALED BY THE AUTHOR.

B) IT SHALL BE UNLAWFUL FOR ANY ELECTRICAL ENGINEER TO SIGN THE NAME, AFFIX THE SEAL OR USE ANY OTHER METHOD OF SIGNATURE ON ELECTRICAL PLANS, SPECIFICATIONS OR OTHER DOCUMENTS MADE UNDER ANOTHER ELECTRICAL ENGINEER'S SUPERVISION, UNLESS THE SAME IS MADE IN SUCH MANNER AS TO CLEARLY INDICATE THE PART OR PARTS OF SUCH WORK ACTUALLY PERFORMED BY THE FORMER, AND IT SHALL BE UNLAWFUL FOR ANY PERSON, EXCEPT THE ENGINEERING-IN-CHARGE, TO SIGN FOR ANY BRANCH OF WORK FOR ANY SERVICES OF ELECTRICAL PRACTICE, NOT ACTUALLY PERFORMED BY ELECTRICAL ENGINEER CONCERNED. THE ENGINEER-IN-CHARGE SHALL BE FULLY RESPONSIBLE FOR ALL ELECTRICAL PLANS, SPECIFICATIONS AND OTHER DOCUMENTS ISSUED UNDER THE SEAL OR AUTHORIZED SIGNATURE AND SHALL BE RECORDED UNDER THE ISSUED RECORD LOGBOOK.

C) DRAWINGS AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTIES AND DOCUMENTS OF THE ELECTRICAL ENGINEER AS PROVIDED FOR IN SECTION 36 OF THIS ACT.

D) ALL ELECTRICAL PLANS, DESIGNS, SPECIFICATIONS, DRAWINGS AND ELECTRICAL DOCUMENTS RELATIVE TO ELECTRICAL ENGINEERING PRACTICE SHALL BEAR THE SEAL AND SIGNATURE ONLY OF THE REGISTRANTS OR LICENSED PROFESSIONAL AS DEFINED IN SECTION 4.A. AND 4.B. OF THIS ACT AND SHALL BE REQUIRED TO INDICATE THE REGISTRATION AND PROFESSIONAL LICENSE NUMBER, REGISTRATION AND EXPIRY DATES AND PAGE NUMBER OF THE ISSUED RECORD LOGBOOK THE DOCUMENT HAS ENTERED AND RECORDED.

SEC. 26. Section 28 (Refusal to Issue Certificates) of RA 7920 is hereby amended to read as follows:

“Sec. 28. Refusal to Issue Certificate. – The Board **[of electrical engineering]** shall not issue a certificate of registration to any person convicted by final judgment by the court of any criminal offense involving moral turpitude or to any person guilty of immoral or dishonorable conduct or to any person of unsound mind. In the event of refusal to issue certificate for any reason, the Board shall give the applicant a written statement setting forth the reasons for such action, which statement shall be incorporated in the records of the Board. After no less than a year from the finality of the Board’s decision, the Board, out of equity and justice, may recommend to the PRC **[commission]** the issuance of the certificate of registration to the applicant.”

SEC. 27. Section 29 (Revocation of Certificates of Registration and Suspension from the Practice of the Profession) of RA 7920 is hereby amended to read as follows:

“Sec. 29. Revocation of Certificate of Registration and Suspension from the Practice of the Profession. –

xxx

a) Being AN **[a professional]** electrical engineer, the registrant **[he]** has signed and affixed the registrant’s seal on any plan, design, technical report, valuation, estimate, specification or other similar document or work not prepared by the registrant or not executed under the registrant’s immediate supervision;

b) The registrant **[He]** has represented himself as having taken charge of or supervised: any electrical construction or installation; operation, tending and maintenance of any electrical plant; manufacture or repair of electrical equipment, teaching of electrical engineering subjects; sale or distribution of any electric supply or utilization equipment requiring engineering calculations or application of engineering principles and data, without actually having done so.

The decision of the Board shall be final and executory unless it is appealed by the respondent to the PRC **[Commission]** within fifteen (15) days from the receipt of such decision. The decision of the Board or PRC **[Board’s or Commission’s decision]** is appealable by the respondent to the Court of Appeals in accordance with the procedure provided under the Rules of Court.

Any person, firm, association or corporation may file charges in accordance with the provisions of this section against any licensee, or the Board may, on its own initiative investigate and take cognizance of the acts and practices constituting the cause for suspension or revocation of the certificate of registration and render decision through proper resolution or order. The [Such] charges shall be in writing and sworn to by the person making them and shall be filed with the Board. The rules and regulations of the PRC [Commission] on administrative investigation shall govern the procedure and conduct of administrative investigation before the Board. The respondent shall have the right to a speedy and public hearing and the right to confront and cross-examine witnesses.”

SEC. 28. Section 31 (Field of Practice) of RA 7920 is hereby amended to read as follows:

“SEC. 31. SCOPE AND FIELD OF PRACTICE–

A) A PERSON IS DEEMED TO BE IN THE PRACTICE OF ELECTRICAL ENGINEERING WHEN HE RENDERS OR OFFERS TO RENDER PROFESSIONAL ELECTRICAL SERVICE IN THE FOLLOWING SCOPE:

1. AUTHORITY TO SIGN AND SEAL ELECTRICAL PLANS AND OTHER RELATED DOCUMENTS AS PROVIDED FOR IN SECTION 4 OF THIS ACT.
2. INSPECTION AND APPRAISAL OF ELECTRICAL SYSTEMS AND FACILITIES AS DEFINED IN THIS ACT;
3. SUPERVISION AND MANAGEMENT OF AND/OR OPERATION AND MAINTENANCE;
4. IMPLEMENTATION & MONITORING OF ELECTRICAL SAFETY PLAN;
5. DESIGN AND PREPARATION OF PLANS, SPECIFICATIONS AND ESTIMATES;
6. SUPERVISION OF CONSTRUCTION, ERECTION, INSTALLATION, WIRING, TESTING AND COMMISSIONING;
7. CONSULTATION, INVESTIGATION, VALUATION AND MANAGEMENT OF SERVICES REQUIRING ELECTRICAL ENGINEERING KNOWLEDGE;
8. SUPERVISION OF THE MANUFACTURE AND REPAIR OF ELECTRICAL EQUIPMENT;
9. TEACHING AND LECTURING OF ELECTRICAL ENGINEERING PROFESSIONAL SUBJECTS AND ELECTRICAL WORKS;
10. TAKING CHARGE OF THE SALES AND DISTRIBUTION OF ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING ENGINEERING CALCULATIONS OR APPLICATIONS OF ENGINEERING DATA; AND

B) THE FIELD OF PROFESSIONAL SERVICE OF ELECTRICAL ENGINEERS INVOLVES THE ART AND SCIENCES OF PRODUCTION, DEVELOPMENT, APPLICATION, UTILIZATION, CONTROL, REGULATION AND MANAGEMENT OF ELECTRICAL, ELECTROMAGNETICS, POWER ELECTRONICS, ELECTRO-CHEMICAL, ELECTRO-MECHANICAL, ELECTRO-ACOUSTIC, THERMOELECTRIC, ELECTRO-TECHNICAL AND RELATED PHENOMENA OF NATURE FOR THE BENEFIT OF MANKIND AND THE COUNTRY AS A WHOLE NOTABLY IN THE FORM STATED ABOVE AND FURTHER CLASSIFIED BELOW:

1. DESIGN SERVICES: PROJECT PROGRAMMING AND SCHEDULING; SITE SURVEY, INVESTIGATION AND SELECTION; FEASIBILITY AND FINANCING STUDIES; PREPARATION OF ELECTRICAL PLANS; QUANTITY SURVEYING AND COST ESTIMATE; CONTRACT DOCUMENT PREPARATION AND ADMINISTRATION;
2. ENGINEERING CONSULTATION: PROJECT MANAGEMENT; PROFESSIONAL ADVICE; TECHNICAL EVALUATION AND REPORT; DESIGN REVIEW; TECHNICAL SPECIFICATION PREPARATION; CLIENT REPRESENTATION; INSPECTION AND APPRAISAL; CONSTRUCTION COORDINATION AND PROGRESS REPORT; QUALITY AND QUANTITY SURVEYING; APPRAISAL AND EVALUATION OF CONSTRUCTION PROGRESS;
3. RESEARCH AND DEVELOPMENT: STUDIES, ANALYSIS, SYNTHESIS OF SYSTEMS, FORMULATION AND DEVELOPMENT OF NEW PRODUCTS, DEVELOPING NEW TECHNOLOGIES AND INNOVATION, EXPLORATION AND DISCOVERY OF NEW ELECTRICAL ENERGY SOURCE;
4. SALES AND MARKETING: SELECTION OF SUPPLIERS; DETERMINATION OF REQUIREMENTS; QUOTATION PREPARATION; PROCUREMENT; MARKETING AND DISTRIBUTION; SALES AND APPLICATION; AND AFTER SALES SERVICES;
5. EDUCATIONAL SERVICES: TEACHING ELECTRICAL ENGINEERING SUBJECTS; TECHNICAL LECTURING AND TRAINING; WRITING AND AUTHORIZING OF TECHNICAL ARTICLES, THESIS, TREATIES, STUDIES, PUBLICATIONS AND BOOKS; ON-THE-JOB TRAININGS;
6. CONSTRUCTION AND INSTALLATION: PROJECT PLANNING AND IMPLEMENTATION; SECURING OF GOVERNMENT PERMITS AND CERTIFICATIONS; PROJECT ENGINEERING AND MANAGEMENT;

CONSTRUCTION COORDINATION AND PROGRESS MEETINGS; INSTALLATION, UPGRADING, MODIFICATION, RETROFITTING, RENOVATION AND RESTORATION; TESTING AND COMMISSIONING AND AS-BUILT PLAN PREPARATION;

7. OPERATION AND MAINTENANCE SERVICES: PRODUCTION AND GENERATION; TENDING OF MACHINE AND SYSTEM; TESTING, MEASURING, MONITORING, REPAIR, REPLACEMENT AND SERVICING; DIRECTORY AND RECORDING OF MAINTENANCE HISTORY OF SYSTEM; SURVEY AND EVALUATION OF SYSTEM FOR MAINTENANCE REQUIREMENT; ANALYZING INSPECTION AND TEST REPORT FOR PLANNING OF CURATIVE/PREVENTIVE/PREDICTIVE MAINTENANCE MEASURES; MAINTENANCE PLAN PREPARATION AND IMPLEMENTATION; AND

8. ELECTRICAL SAFETY: ELECTRICAL SAFETY PLAN IMPLEMENTATION, INSPECTION AND ISSUANCE OF ELECTRICAL SAFETY CERTIFICATE TO ALL BUILDINGS AND ESTABLISHMENTS.”

SEC. 29. Section 32 (Prohibition in the Practice of Electrical Engineering) of RA 7920 is hereby amended to read as follows:

“Sec. 32. Prohibition in the Practice of Electrical Engineering. – No person shall:

- a) Practice or offer to practice electrical engineering in the Philippines without having previously obtained a certificate of registration and a professional license from the Board except as provided for in Section 16 **[14]** hereof;
- b) xxx;
- c. xxx;
- d) xxx;
- e) xxx;
- f) Use, in connection with the registrant’s name or otherwise assume, use or advertise any title or description tending to convey the impression that the REGISTRANT **[he]** is an electrical engineer **[a professional electrical engineer, registered electrical engineer, or registered master electrician]** without holding a valid certificate or a valid license; and
- g) Sign a document involving electrical design, plan, technical specification, valuation and the like on behalf of an **[a professional]** electrical engineer/practitioner.”

SEC. 30. Section 33 (Personnel Required) of RA 7920 is hereby amended to read as follows:

“SEC. 33. Personnel Required. – Except as otherwise provided in this Act, every electric plant, industrial plant or factory, commercial establishment, institutional building, watercraft, electric locomotive or in any other installation where persons and properties are exposed to electrical hazards shall not have less than the following complement of professional electrical engineer WITH A COS **[registered electrical engineer and registered master electricians]** and a general practitioner:

a) Electric plants with total installed generating capacity of any size and employing voltages of any standard rating – (2) ELECTRICAL ENGINEERS, ONE OF WHOM HAS A COS **[one (1) professional electrical engineer or one (1) registered electrical engineer]**. However, for capacities up to five hundred-kilovolt amperes (500 kVA) and employing voltages of up to six hundred volts (600 V) – AT LEAST ONE (1) GENERAL PRACTITIONER **[one (1) registered master electrician]**;

b) Industrial plants or factories, commercial establishment, or institutional buildings having a connected kVA load of any size and employing voltages of any standard rating – AT LEAST (2) ELECTRICAL ENGINEERS, ONE OF WHOM HAS A COS **[one (1) professional electrical engineer or one (1) registered electrical engineer]**. However, for connected loads up to five hundred kilovolt-amperes(500 kVA) and employing voltages up to six hundred volts (600 V) – AT LEAST ONE (1) GENERAL PRACTITIONER **[one (1) registered master electrician]**;

c) Watercrafts or electric locomotives with installed generating capacity up to the maximum size and voltage available for these units – AT LEAST TWO (2) ELECTRICAL ENGINEERS, ONE OF WHOM HAS A COS **[one (1) professional electrical engineer or one (1) registered electrical engineer]**. However, for generating capacities up to five hundred kilovolt-amperes/kilowatt (500 kVA/kW) and employing voltages up to six hundred volts (600 V) – AT LEAST ONE (1) GENERAL PRACTITIONER **[one (1) registered master electrician]**. *Provided, however,* That in all the aforementioned cases, additional ELECTRICAL ENGINEERS **[qualified personnel]** shall be employed to ensure safe operation and safeguard public welfare, life and property: xxx xxx xxx

This section, however, shall not apply to any installation which has a connected load of TWENTY- FIVE **[fifty (50)]** kilovolt-amperes (25 kVA) or less and employs voltage of not more than two hundred fifty volts (250 V) and for installations which are designed to be automatic and do not require resident personnel for their safe operation: *Provided, That,* their maintenance and repair

shall be under the charge of a duly registered personnel: *Provided, Finally*, That a yearly inspection will be conducted and certified to be in a safe operating condition by an ELECTRICAL ENGINEER [**a professional electrical engineer, registered electrical engineer, or a registered master electrician**].”

SEC. 31. Section 34 (Preparation of Plans, Supervision of Installation, Application of the Philippine Electrical Code) of RA 7920 is hereby amended to read as follows:

“Sec. 34. Preparation of Plans & Supervision of Installation. – It shall be unlawful for any person not authorized under this Act to prepare plans, electrical valuations or specifications for any electrical wiring, equipment or system; and no installation thereof shall be undertaken unless the plans, designs, valuations and specifications have been prepared by or under the responsible charge of, and signed and sealed by an ELECTRICAL ENGINEER PRACTITIONER [**a professional electrical engineer**]; and ELECTRICAL [**construction**] permit for the execution thereof is first secured WHICH SHALL BE A REQUIREMENT OF THE IMPLEMENTING AGENCY OF THE GOVERNMENT TO BE FIRST COMPLIED [**unless the work is done in accordance with the Philippine Electrical Code and is executed under the responsible charge or supervision of a professional electrical engineer, registered electrical engineer, or a registered master electrician, as the case may be, and the routinary fiscal and ministerial requirements of the government agency, if any, exercising jurisdiction over the particular installation have been complied with**]. LIKEWISE SUCH ELECTRICAL PERMIT IS A MANDATORY REQUIREMENT FOR THE ELECTRICAL CONNECTION APPLYING TO THE ELECTRIC UTILITY COMPANY OR ELECTRIC COOPERATIVES WHETHER IT BE TEMPORARY OR PERMANENT CONNECTIONS. THUS IT IS UNLAWFUL FOR ANY ELECTRICAL CONNECTION WITHOUT THE ISSUANCE OF CERTIFICATE OF FINAL ELECTRICAL INSPECTION SIGNED AND SEALED BY THE AUTHORIZED REGISTERED PROFESSIONAL IN-CHARGE IN THE CONSTRUCTION AND INSTALLATION.”

SEC. 32. Section 40 (Penalty Clause) of RA 7920 is hereby amended to read as follows:

“Sec. 40. Penalty Clause. – Any person who shall violate any of the provisions of this Act shall, upon conviction, be sentenced to a fine from ONE HUNDRED THOUSAND PESOS (P100,000.00) to FIVE HUNDRED

THOUSAND PESOS (P500,000.00) or imprisonment for a period not less than SIX (6) YEARS AND ONE (1) DAY NOR MORE THAN TWELVE (12) YEARS or both at the discretion of the court. *HOWEVER*, ANY COMPANY, FIRM, PRIVATE ESTABLISHMENTS AND THE LIKES WHO SHALL VIOLATE ANY PROVISIONS OF THIS ACT SHALL BE GUILTY, UPON CONVICTION, BE SUBJECTED TO A FINE FROM TWO HUNDRED THOUSAND PESOS (P200,000.00) TO ONE MILLION PESOS (P1,000,000.00) OR SUSPENSION OR REVOCATION, OR BOTH OF PERMIT TO OPERATE OR CLOSURE, OR BOTH AT THE DISCRETION OF THE COURT.”

SEC. 33. Section 42 (New Certificates of Registration and Professional Licenses) of RA 7920 is hereby amended to read as follows:

“SEC. 42. New Certificates of Registration and Professional Licenses. –

a) PROFESSIONAL ELECTRICAL ENGINEERS WITH VALID CERTIFICATES OF REGISTRATION AND PROFESSIONAL LICENSE ISSUED UNDER REPUBLIC ACT NO. 7920 SHALL REGISTER WITHIN TWO (2) YEARS FROM THE EFFECTIVELY OF THIS ACT AND BE ISSUED NEW CERTIFICATES OF REGISTRATION, PROFESSIONAL LICENSES AS PROFESSIONAL ELECTRICAL ENGINEERS UNDER THIS ACT AND RECORD LOG BOOK TO REPLACE THEIR ORIGINAL ONES. THEIR SERIAL NUMBERS SHALL BE PROVIDED BY THE REGISTRATION DIVISION OF THE PRC. THEY SHALL ALSO BE ISSUED THE GENERAL OR SPECIFIC CERTIFICATE OF SPECIALTY, AS THE CASE MAY BE, BY THE BOARD PURSUANT TO THE GUIDELINES PROMULGATED BY THE PRC IN ACCORDANCE WITH THE PROVISIONS OF SECTIONS 4.A.1 AND 4.A.2 OF THIS ACT.

b) REGISTERED ELECTRICAL ENGINEERS WITH VALID CERTIFICATES OF REGISTRATION AND PROFESSIONAL LICENSES ISSUED UNDER REPUBLIC ACT NO. 7920 SHALL REGISTER WITHIN TWO (2) YEARS FROM THE EFFECTIVITY OF THIS ACT AND BE ISSUED NEW CERTIFICATES OF REGISTRATION, NEW PROFESSIONAL LICENSES AS GENERAL PRACTITIONERS UNDER THIS ACT AND RECORD LOG BOOK TO REPLACE THEIR ORIGINAL ONES. THEIR SERIAL NUMBERS SHALL BE PROVIDED BY THE REGISTRATION DIVISION OF THE PRC.

c) REGISTERED MASTER ELECTRICIANS WITH VALID CERTIFICATES OF REGISTRATION AND PROFESSIONAL LICENSES ISSUED UNDER REPUBLIC ACT NO. 7920 SHALL REGISTER WITHIN TWO (2) YEARS FROM THE EFFECTIVITY OF THIS ACT AND BE ISSUED NEW CERTIFICATES OF REGISTRATION, NEW PROFESSIONAL LICENSES AS MASTER ELECTRICIANS UNDER THIS ACT AND RECORD LOGBOOK TO REPLACE THEIR ORIGINAL ONES.

d) THE PRC SHALL CONTINUE TO CONDUCT LICENSURE EXAMINATIONS FOR ELECTRICAL ENGINEERS AND THE APPROVAL AND ISSUANCE OF LICENSES AND CERTIFICATES OF SPECIALTY.”

SEC. 34. Funding Provisions. The Chairperson of the PRC shall immediately include in the Commission’s programs the implementation of this Act, the funding of which shall be included in the annual General Appropriations Act.

SEC. 35. Implementing Rules and Regulations. Within ninety (90) days from the effectivity of this Act, the Board, subject to the approval of the PRC and in coordination with the APO, shall prescribe, promulgate, and issue a Board resolution on the implementing rules and regulations of this Act and which shall be effective fifteen (15) days after publication in the Official Gazette or in any newspaper of general circulation.

SEC. 36. Repealing Clause. – Republic Act No. 7920 is hereby repealed. All other laws, decrees, executive orders, proclamations, rules and regulations, or parts thereof inconsistent with the provisions of this Act are hereby amended, repealed or modified accordingly.

SEC. 37. Separability Clause. – If any provision or part of this Act is declared invalid or unconstitutional, the remaining parts or provisions not affected shall remain force and effect.

SEC. 38. Effectivity. – This Act shall take effect fifteen (15) days after its publication in the Official Gazette or in a newspaper circulation.

Approved.