

Electronics Engineering Profession

In the Philippines, the practice of Electronics Engineering has three categories of practice as embodied in Republic Act 9292: the Professional Electronics Engineer (PECE), the Registered Electronics Engineer (ECE) and the Electronics Technician (ECT). These Electronics Engineering practitioners must be of good moral character, citizens of the Philippines or of a foreign country qualified to practice in the country. Though ECEs are not prevented from rendering design work and providing or assuming supervisory role in electronics works and in related fields, only PECEs are allowed to sign and seal plans, drawings, permits, etc.



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The PECE has the following credentials:

- Holder of a degree of Bachelor of Science in Electronics Engineering or equivalent;
- Passed the ECE licensure examinations under RA 5734 or RA 9292;
- Holder of a valid Certificate of Registration and Professional Identification Card as PECE;
- Active self-practice and/or employment for a period of at least seven (7) years, at least two (2) years of which are in responsible charge of significant engineering work.



The ECE has the following credentials:

- Holder of a degree of Bachelor of Science in Electronics Engineering or equivalent;
- Passed the ECE licensure examinations under RA 5734 or RA 9292;
- Holder of a valid Certificate of Registration and Professional Identification Card as ECE.



The ECT has the following credentials:

- Holder of a valid Certificate of Registration and Professional Identification Card as ECT;
- Graduate of an Associate, Technician, Trade or Vocational course in Electronics or equivalent; or
- Completed at least the minimum third-year equivalent of a Bachelor of Science program in Electronics Engineering or equivalent.



Electronics Engineering Practitioner: Nature and Scope of Practice

The nature and scope of the practice of Electronics Engineering in the country are stipulated in the New Electronics Engineering Act of the Philippines (RA 9292). They shall embrace and consist of any work or activity relating to the application of engineering sciences and/or principles



to the investigation, analysis, synthesis, planning, design, specification, research and development, provision, procurement, marketing and sales, manufacture and production, construction and installation, tests/ measurement/ control, operation, repair, servicing, technical support and maintenance of electronics components, devices, products, apparatus, instruments, equipment, systems, networks, operations and processes in the fields of electronics and electronics-related endeavor.



Electronics Engineering Practitioner: Attributes and Characteristics

- Life-long Learner
- Analytical and Critical Thinker
- Creative
- High Intellectual integrity
- Self-motivated
- High ethical standard



Electronics Engineering Practitioner: Competencies

An electronics engineering practitioner possesses the following competency standards, knowledge, attitudes, values and skills:

Electronics Engineering Practice

- To abide by engineering practice with highest integrity
- To conceptualize, analyze and design electronics engineering projects
- To generate technical specifications
- To conduct engineering evaluation, experiment and investigation



Research and Development

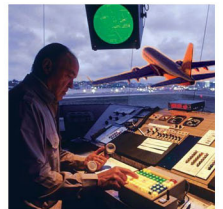
- To apply basic methods of research and development
- To engage in independent and collaborative research and development programs

Manage Significant Projects

- To interpret scope of projects
- To explain and practice quality, safety and risk management
- To participate in the discussion of plans, programs, strategies and budget
- To integrate systems
- To integrate changes in and modify existing systems

Operation Management:

- To apply time motion study
- To perform measurement and system analysis



Electronics Education



There are over 100 Colleges and Universities across the country offering Bachelor of Science in Engineering and vocational courses in electronics. The tuition and other fees for Bachelor of Science in Electronics Engineering may range from a few thousand pesos to several tens of thousands a semester depending on the school offering it.

Electronics Engineering Practitioner:

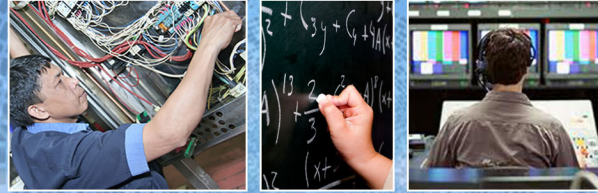
Employment Opportunities

Electronics Engineering practitioners are often employed in the following:

- ACADEME
- AEROSPACE INDUSTRY
- AUTOMOTIVE INDUSTRY
- BROADCAST INDUSTRY
- CONSTRUCTION INDUSTRY
- DEFENSE/MILITARY
- MARITIME INDUSTRY
- OIL AND GAS INDUSTRY (INSTRUMENTATION)
- POWER GENERATION INDUSTRY
- RAILWAY INDUSTRY
- RESEARCH AND DEVELOPMENT
- SEMICONDUCTOR INDUSTRY
- UTILITIES
- TELECOMMUNICATIONS

Careers in Electronics Engineering

Electronics Engineering Practice



Research and Development



Manage Significant Projects



Operation Management



FOR MORE INFORMATION ON THE PRACTISE OF ELECTRONICS ENGINEERING, Visit www.prc.gov.ph and click on REGULATORY BOARD OF ELECTRONICS ENGINEERING

The Professionals



PECE

Professional Electronics Engineers

ECE

Electronics Engineers

ECT

Electronics Technicians