



Republic of the Philippines  
Professional Regulation Commission  
Manila



NOT FOR SALE

**PROFESSIONAL REGULATORY BOARD OF ELECTRICAL ENGINEERING**

**PROGRAM OF THE SEPTEMBER 2021 REGISTERED ELECTRICAL ENGINEERS  
LICENSURE EXAMINATION AND REGISTERED MASTER ELECTRICIANS LICENSURE  
EXAMINATION TO BE HELD IN THE CITIES OF MANILA, BAGUIO, CAGAYAN DE ORO,  
CEBU, DAVAO, ILOILO, LEGASPI, TACLOBAN, ROSALES, TUGUEGARAO, PAGADIAN,  
ZAMBOANGA AND LUCENA.**

**I - REGISTERED ELECTRICAL ENGINEER (REE)**

DATE AND TIME	S U B J E C T S	WEIGHT
<b><u>SUNDAY, SEPTEMBER 5, 2021</u></b>		
7:00 A.M. - 7:45 A.M.	GENERAL INSTRUCTIONS AND FILLING OUT OF FORMS	
8:00 A.M. - 1:00 P.M.	MATHEMATICS such as: Algebra, Trigonometry, Analytic Geometry, Differential Calculus, Integral Calculus, Complex Numbers and Space Vectors, Probability and Statistics, Matrices and Determinants, Sequences and Series, Other Engineering Mathematics such as Differential Equations, Fourier Series, Laplace Transforms, and others.	25%
2:00 P.M. - 6:00 P.M.	ENGINEERING SCIENCES AND ALLIED SUBJECTS such as: General Chemistry, College Physics, Engineering Materials, Engineering Mechanics, Thermodynamics, Fluid Mechanics, Engineering Economics and Management, Electrical Engineering Law and Code of Ethics, Contracts and Specifications, Computer Fundamentals and Programming, Philippine Electrical Code, Parts 1 and 2 and others.	30%
<b><u>MONDAY, SEPTEMBER 6, 2021</u></b>		
8:00 A.M. - 2:00 P.M.	ELECTRICAL ENGINEERING PROFESSIONAL SUBJECTS such as: Quantities/units/constants, Electrical Materials, Passive Circuit Elements, Active Circuits Elements, AC Impedance, Instruments and Measurements, DC Electric Circuits, Transient Response, Magnetic Circuits, AC Electric Circuits, AC Generators, DC Generators, Energy Sources, Energy Conversion, Prime Movers, Rotating Electric Machinery, Power System Components, AC Transmission, DC Transmission, Power System Interconnection, Substation Design, Power Distribution, Wiring Design for Buildings, Power Electronics, Industrial Electronics, Illumination, Telecommunications, Computer Application in Electrical Power Industry and others.	45%

## II - REGISTERED MASTER ELECTRICIAN (RME)

TUESDAY, SEPTEMBER 7, 2021

7:00 A.M. - 7:45 A.M.	<b>GENERAL INSTRUCTIONS AND FILLING OUT OF FORMS</b>	
8:00 A.M. - 12:00 Noon	<b>TECHNICAL SUBJECTS</b> such as: Basic Electricity, RA 7920, Tools, Test Equipment, Electrical Measurements, Lighting, Wirings and Materials, Fuses, Breakers, Switches, Motors, Starters, Generators, Transformers, Operation, Working Principles, Maintenance, Transmission and Distribution Lines, Substation, Ohm's Law and others.	50%
1:00 P.M. - 5:00 P.M.	<b>PHILIPPINE ELECTRICAL CODE, PARTS 1 and 2</b> including: General Installation Requirements, Wiring Methods and Materials, Wiring Devices, Tools and Techniques, Wiring Ampacity and Protection, Equipment for General Use, Special Occupancies, Special Equipment, Special Conditions, Lighting and Wiring, Motor and Generator Wiring Connections, Communications and Signaling Wiring, Electrical Safety and others.	50%

### GENERAL INSTRUCTIONS:

1. Check or verify your school/building assignments at the PRC official website ([www.prc.gov.ph](http://www.prc.gov.ph)) or through the Notices/Announcements to be posted at the PRC premises two (2) to three (3) working days before the date of examination.
2. Report to the school/building assignment before 6:00 a.m. on the first day of the examination to verify your room and seat number. Be punctual. Late examinees will not be admitted.
3. Examinees are required to wear the following attire every examination day:
  1. Male Examinees - White polo shirt with collar (without any seal, logo or mark)  
Decent pants or slacks
  2. Female Examinees - White blouse or shirt with collar (without any seal, logo or mark)  
Decent skirt or slacks
4. Bring the following on examination day:
  - a. Notice of Admission
  - b. Official Receipt
  - c. One (1) piece metered-stamped window mailing envelope
  - d. Two (2) or more pencils (No. 2)
  - e. Ballpens with **BLACK ink only**
  - f. One (1) piece long brown envelope
  - g. One (1) piece long transparent/plastic envelope (for keeping your valuables and other allowed items)

- h. Health Forms (Pursuant to Memorandum No. 68, series of 2020)
- i. Negative RT-PCR Test Results, if applicable, or Certificate of Quarantine (Pursuant to Memorandum No. 68, series of 2020)

5. The following items are strictly **PROHIBITED** inside the examination premises/rooms.

- a. Books, notes, review materials, and other printed materials containing coded data/information/formula.
- b. **Calculators which are programmable or with embedded functions especially CASIO FX991ES and CASIO FX-991ES plus**
- c. **APPLE, SAMSUNG AND OTHER SMART WATCHES, CELLULAR PHONES, EAR PLUGS, TRANSMITTERS, PORTABLE COMPUTERS, BLUETOOTH AND OTHER ELECTRONIC GADGETS/DEVICES WHICH MAY BE USED FOR COMMUNICATION PURPOSES**
- d. Bags of any kind (ladies bag, shoulder bags, attaché case, backpacks, etc.)
- e. Other examination aids not stated on this program.

6. Per Memorandum Order No. 24 (s 2020)<sup>1</sup>, the following precautionary measures and protocols shall be observed and implemented during the conduct of licensure examination such as, but not limited to:

- i. All examinees shall be required to wear and bring protective face mask and alcohol-based sanitizers. For identity verification purposes and pre-examination checking of examination paraphernalia, the face mask shall be required to be properly taken off temporarily to show the examinees' face and the inner part of the facemask. Face masks during the progress of the exam shall not be allowed to be taken off.
- ii. All examination personnel shall be provided with extra protective face masks or face shield and latex gloves.
- iii. All examinees shall be required to queue upon entry with a one-meter distance radius from other examinees.
- iv. Body temperature shall be taken through thermal scanners prior entry to the testing venue premises. Those with fever, cough or colds shall not be allowed entry to the testing venues. Affected examinees shall be allowed, however, to take the next licensure exam without additional cost.
- v. Physical/social distancing among and between examinees and examination personnel during the entirety of the exam and during their entire stay at the testing venue shall be observed. Congregation, gathering or assembly within the examination rooms, hallways or any area within the testing venue shall be strictly prohibited.
- vi. All examinees shall not be allowed to go outside the examination room during break time and lunch time. All are advised to bring own packed lunch and snacks to be placed under the seats, and to be taken out only during break time.
- vii. Proper hand hygiene shall be observed particularly every after use of the restrooms.
- viii. Prior to entry to the examination room, examinees shall be required to sanitize their hands and their plastic envelopes with their sanitizers or alcohol.
- ix. Prior to the distribution of the Test Questionnaires/Booklet, examinees shall again be required to sanitize their hands using their alcohol or hand sanitizers. Hand sanitizers thereafter shall be placed in the examinees transparent envelopes and shall be deposited or placed at the designated area of the examination room. The same process shall be done every start of each examination subject.

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<sup>1</sup> Post Enhanced/Local Community Quarantine Interim Guidelines

- x. The testing venues shall be required to conduct thermal scanning procedure including the provision of sanitizing footbath and for their security personnel to implement proper COVID-19 precautionary measures.
  
- 7. In addition to the above, pursuant to Memorandum No. 68 (s. 2020), the examinees are required to submit **RT-PCR Test Results**, if falling under the groups stated in DOH Memorandum 2020-258A, **or Certificate of Quarantine**. Only those examinees with negative results shall be allowed to take the examination. Please see this link <https://www.prc.gov.ph/sites/default/files/2020-68Memo.pdf> for detailed information
  
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- 8. Read carefully and follow the instructions on your Notice of Admission and Examinees Guide.

**NOTE: PRC WILL NOT BE ANSWERABLE FOR ANY ITEMS THAT WILL BE LOST.**

**This supersedes the July 2021 examination program previously posted.**

Manila, Philippines  
August 9, 2021

APPROVED:



**FRANCIS V. MAPILE**  
Chairman

CERTIFIED CORRECT:



**ATTY. OMAIMAH E. GANDAMRA**  
OIC, PRB Secretariat Division

D-SRB/PRB-BEE  
OEG/FVM/dette