



Republic of the Philippines  
Professional Regulation Commission  
Manila



“NOT FOR SALE”

**PROFESSIONAL REGULATORY BOARD OF AERONAUTICAL ENGINEERING**

**REVISED PROGRAM OF THE AERONAUTICAL ENGINEERS LICENSURE EXAMINATION IN MANILA  
ON DECEMBER 17, 18, AND 19, 2023**

DATE AND TIME	SUBJECTS	RELATIVE WEIGHT
<b><u>SUNDAY, DECEMBER 17, 2023</u></b>		
7:00 A.M.-7:45 A.M.	<b>GENERAL INSTRUCTIONS FILLING OUT OF FORMS</b>	
8:00 A.M.-12:00 NOON	<b>AERODYNAMICS</b> Fundamentals of Low-High Speed Aerodynamics Application of Aerodynamics to Fixed/ Rotary Wing Aircraft Configurations, Performance, Stability and Control; Wind Tunnels and Applications	25%
2:00 P.M. – 5:00 P.M.	<b>MATHEMATICS</b> Algebra, Trigonometry, Analytical Geometry, Calculus and Differential Equations with Aeronautical Engineering Applications	10%
<b><u>MONDAY, DECEMBER 18, 2023</u></b>		
8:00 A.M.-12:00 NOON	<b>AIRCRAFT STRUCTURES AND DESIGN</b> Aircraft Design Fundamentals; Structural Loading Conditions; Structural Analysis and Design of Airframe Components; Landing Gears, Engine Mounts and Other Structural Parts; Non- Structural Components Design	20%
2:00 P.M.-5:00 P.M.	<b>AIRCRAFT CONSTRUCTION, REPAIR AND MODIFICATION</b> Aircraft Materials and Processes; Methods and Techniques in Repair and Modification in accordance with Civil Airworthiness Regulations; Manufacturing/ Production Processes and Quality Assurance	15%
<b><u>TUESDAY, DECEMBER 19, 2023</u></b>		
8:00 A.M.- 12:00 NOON	<b>AIRCRAFT POWER PLANT</b> Thermodynamics and Power Plant Design and Operation Fundamentals with Applications to Internal Combustion Engine Reciprocating Engines Aircraft Gas Turbines, Pulsejet and Ramjet, Rocket Propulsion System and other Aircraft Power Systems	20%
2:00 P.M.-5:00 P.M.	<b>ENGINEERING ECONOMICS AND MANAGEMENT LAWS AND ETHICS</b> Principle of Economics and Management as Applied to Aviation Industry; Laws, Rules and Regulations Governing the Practice of Aeronautical Engineering to include PD 1570, Rules and Regulations with Code of Professional Ethics of the Board of Aeronautical Engineering and others (International Aviation Laws)	10%
<b>TOTAL.....</b>		<b>100%</b>

## 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 examination. Bring your NOTICE OF ADMISSION when you verify your school/building assignment. Visit your school/building assignment prior to the day of the examination.
2. Report to the school/building assignment before 5:30 a.m. on the first day of 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:

Male Examinees	-	White polo shirts with collar, tucked-in (without any seal, logo or mark) Decent pants or slacks
Female Examinees	-	White blouse or shirts with collar (without any seal, logo Or mark) Decent pants, slacks or skirts
4. Bring the following on examination day:
  - a. Notice of Admission
  - b. Official Receipt
  - c. Two (2) or more pencils (No. 2)
  - d. Ball pens with **BLACK ink only**
  - e. One (1) piece long brown envelope
  - f. One (1) piece long transparent/plastic envelope (for keeping your valuables and other allowed items)
  - g. **Negative RT-PCR Test Results, if applicable, or Certificate of Quarantine or copy of Vaccination Card for fully vaccinated examinees to be submitted to the proctor on the examination day**
5. The following are **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 TO RETRIEVE DATA/INFORMATION AND/OR TO COMMUNICATE FOR WHATEVER PURPOSES.**
  - d. Bags of any kind (ladies bag, shoulder bags, attaché case, backpacks, etc)
  - e. Other examination aides not stated in this program.

All personal belongings of the examinees shall be surrendered to the proctor and shall be placed in a secured space within the examination room.

The rules on the conduct of bodily search, inspection of personal belongings of the examinees, and the seizure/confiscation of prohibited items during the licensure exam (Annex A of PRC Memorandum Order No. 57, s. 2020) shall be strictly observed.
6. Joint Administrative Order No. 01 (s. 2022)<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:
  - 6.1. All examinees and examination personnel shall enforce the following precautionary measures among themselves:

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<sup>1</sup> PRC, DOH, DILG, and PNP JAO, entitled "Revised Guidelines on the Observance of Protocols for Minimum Public Health Standards and Institutionalization of Health Settings in the Conduct of Licensure Examinations during State of Public Health Emergencies"

- a. Limit their travel to a semi-bubble set up of home-testing venue-home
  - b. Observe physical distancing of at least one (1) meter between and among examinees.
  - c. Restrict examinees to their assigned seat;
  - d. Wear a well-fitted face mask at all times;
  - e. Bring 70% ethyl alcohol for hand disinfection;
  - f. Avoid close contacts (e.g., “beso-beso”, hugging, handshakes), and similar activities which directly involve touching of other persons;
  - g. Avoid touching one’s eyes, nose, and mouth;
  - h. Observe cough and respiratory etiquette at all times; and
  - i. Avoid spitting in public, on floors, and corridors.
- 6.2. Examinees and examination personnel shall bring their own meals (pre-packed meal/snack and drink) to be eaten during breaks, on their assigned seats. Face masks and face shields (if applicable) will only be removed when taking meals or drinks.
- 6.3. Examinees shall bring their own pens, pencils, and erasers. Borrowing from a seatmate is strictly not allowed.
- 6.4. Loitering and unnecessary conversing in the hallways or in the examination room are strictly not allowed.
- 6.5. Physical distancing shall be strictly observed in the queuing of the examinees entering the testing venues;
- 6.6. Examinees shall proceed immediately to their designated examination rooms after the screening.
- 6.7. During the examination proper, the following shall be strictly observed:
- a. Room watchers/proctors and examinees shall be advised to observe and maintain the Minimum Public Health Standards (MPHS), at all times, within the examination rooms, particularly when examinees submit their answer sheets and test booklets/questionnaires. Only one examinee at a time shall be accommodated;
  - b. Any examinee who needs to use the restroom shall be accompanied by a room watcher/proctor, while always observing and maintaining MPHS. Only one examinee at a time shall be allowed to go to the restroom. Proper hand hygiene shall be observed particularly every after use of the restrooms; and
  - c. Protective facemasks and handkerchiefs/tissue shall be inspected by room watchers/proctors before the start of every subject and, if necessary, during the conduct of examination to ensure that they are not used to conceal codigos. In compliance with the MPHS, the inspection shall be done one at a time, while the rest of the examinees are seated.
7. In addition to the above, the examinees are required to submit a copy of the proof of full vaccination (1 or 2 doses depending on the vaccine received plus booster or based on the latest definition of “Fully Vaccinated”), RT-PCR test for those who are not fully vaccinated, or Certificate of Completion of Isolation, as the case may be, to the proctor on examination day.

If the examinee recently contracted COVID-19, a Certificate of Completion of Isolation or its equivalent signed by any of the following must be submitted:

1. Duly licensed Physician (government or private physician);
2. Municipal Health Officer, Provincial Health Officer or City Health Officer;
3. Designated Barangay Health Emergency Response Team (BHERTs) Officer or Barangay Health Worker visiting the residence of the examinee or examination personnel.

Examinees coming from other countries are required to quarantine following the latest quarantine and isolation protocols and guidelines, in and around the time of examination.

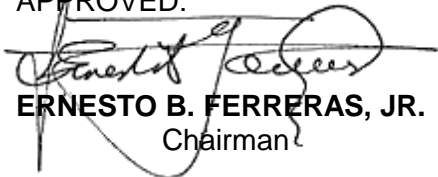
8. For detailed information, please refer to JAO 01(s 2022) (copy attached).

9. Read carefully and follow the instructions on your **NOTICE OF ADMISSION** and **EXAMINEES GUIDE**.

NOTE: PERSONAL BELONGINGS BROUGHT BY AN EXAMINEE SHALL BE FOR HIS/HER OWN ACCOUNT. THE PRC WILL NOT BE ANSWERABLE FOR ANY SUCH ITEM OR PERSONAL BELONGING THAT MIGHT BE LOST DURING THE EXAM WITHOUT FAULT OR NEGLIGENCE ON ITS PART

Manila, Philippines  
October 19, 2023

APPROVED:



**ERNESTO B. FERRERAS, JR.**  
Chairman

CERTIFIED CORRECT:



**Atty. Lovelika T. Bautista**  
Chief, PRB Secretariat Division