



Republic of the Philippines
Professional Regulation Commission
Manila



PROFESSIONAL REGULATORY BOARD OF AERONAUTICAL ENGINEERING

PROGRAM OF THE AERONAUTICAL ENGINEERS LICENSURE
EXAMINATION IN MANILA ON NOVEMBER 13, 14 and 15, 2018

DATE AND TIME	SUBJECTS	RELATIVE WEIGHT
<u>TUESDAY, NOVEMBER 13, 2018</u>		
7:00 A.M.-7:45 A.M.	GENERAL INSTRUCTIONS FILLING OUT OF FORMS	
8:00 A.M.-12:00 NOON	AERODYNAMICS 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.	MATHEMATICS Algebra, Trigonometry, Analytical Geometry, Calculus and Differential Equations with Aeronautical Engineering Applications	10%
<u>WEDNESDAY, NOVEMBER 14, 2018</u>		
8:00 A.M.-12:00 NOON	AIRCRAFT STRUCTURES and DESIGN 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.	AIRCRAFT CONSTRUCTION, REPAIR AND MODIFICATION Aircraft Materials and Processes; Methods and Techniques in Repair and Modification in accordance with Civil Airworthiness Regulations; Manufacturing/Production Processes and Quality Assurance	15%
<u>THURSDAY, NOVEMBER 15, 2018</u>		
8:00 A.M.- 12:00 NOON	AIRCRAFT POWER PLANT 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.	ENGINEERING ECONOMICS AND MANAGEMENT LAWS AND ETHICS 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	10%
TOTAL.....		100%

GENERAL INSTRUCTIONS:

1. Check or verify your school building assignments at the PRC official website (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 prior to the day of the examination.
2. Report to the school/building assignment before 6:30 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:

Male Examinees - White polo shirt or 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. One (1) piece metered-stamped window mailing envelope
 - d. Two (2) or more pencils
 - e. Ball pens 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. **NON-PROGRAMMABLE CALCULATORS (REFER TO THE LIST ON THE EXAMINEES GUIDE**
5. The following are **PROHIBITED** inside the examination premises/rooms.
 - a. Books, notes, review materials, and other materials containing coded data/ information/ formula.
 - b. PROGRAMMABLE CALCULATORS.
 - c. **CELLULAR PHONES, EAR PLUGS, TRANSMITTERS, PORTABLE COMPUTERS, SMART WATCHES, BLUETOOTH AND OTHER ELECTRONIC GADGETS/DEVICES WHICH MAYBE USED FOR COMMUNICATION PURPOSES;**
 - d. Bags of any kind (ladies bag, shoulder bags, attaché case, backpacks, etc.);
 - e. Other examination aides not stated on this program.
6. Read carefully and follow the instruction on your Notice of Admission and Examinees Guide.

NOTE: PRC WILL NOT BE RESPONSIBLE FOR PROHIBITED ITEMS THAT WILL BE LOST.

Manila, Philippines
26 March 2018

CERTIFIED CORRECT

Ruthie S. Bautista
ATTY. LOVELIKA T. BAUTISTA

Chief
Secretariat to the Professional Regulatory Boards

PRB-AE/D-SRB
EBF/LTB/ces


APPROVED:
ERNESTO B. FERRERAS JR.
Chairman