

Vocational Skills Contest

V30 Aircraft Maintenance

1. Task Assignment

The task consists in the completion of 3 modules.

- <u>Module n°1</u>: removal, disassembly, verification, reassembly and reinstallation of an engine sub-assembly. Contestants will use the technical maintenance sheet and will fill out a verification report. The module will be performed on a turbojet's engine or starter.
- <u>Module n°2</u>: Troubleshooting and repair. Contestants will identify a problem using the report written by the pilot after his flight; they will establish a diagnostic and make recommendations for restoration to proper flight capabilities. The module will be performed on a helicopter. The jury will change the problem after each contestant's turn.
- <u>Module n°3</u>: Visual inspection. Contestants will follow each point of the procedure sheet to prepare the aircraft for its first flight of the day. They will fill out an inspection report. The module will be performed on a helicopter.

2. Allocated time: 6h00

6 hours of competition.

- Module 1: 3 hours and 30 minutes.

- Module 2: 1 hour and 30 minutes.

- Module 3: 1 hour.



3. Requirements

- The jury will collect all electronic means of communication contestants may have (Cell phone, tablet computers...) at the beginning of the competition. They will be returned to their owners once the competition is finished.
- Any contestant caught cheating, talking to someone from the public or using a communication device will suffer a penalty of 5 points for the first transgression. A second transgression will lead to an exclusion from the contest.
- Contestants are not allowed to lend or borrow any equipment for the duration of the competition.
- Contestants must respect the safety rules. While completing modules n°1 and 3, they will notify the judge in charge of safety before activating any of the aircraft's controls.

4. Procedure

Day -1 (March 24th): On the day before the competition, contestants will be welcomed by the members of the jury. A briefing about the organization of the contest and the safety rules will be arranged.

Day 1 (March 25th): Contestants will have 3 hours and 30 minutes to complete module n°1.

Day 2 (March 26th): Contestants will have 1 hours and 30 minutes to complete module n°2, and 1 hour to complete module n°3.



5. List of tools to be brought for each contestant

Contestants will bring their Personal Protective Equipment (PPE), their working clothes and a standard mechanical toolbox. Specific equipment will be provided by the organization.

N°	Tool	Photo	Notes	Qty
01	Safety shoes		Contestant's choice	1 pair
02	Working clothes		Contestant's choice	1
03	Work gloves		Contestant's choice	1
04	Safety glasses		Contestant's choice	1
05	Toolbox	2 years and a second se	Standard set of tools for mechanical work	1

6. List of the facilities and equipment installed at the contest site

N°	Equipment	Photo	
01	Helicopter		
02	Engine	Grille de protection Arbre de l'hélice Tuyère Allumeur d'allumage	
03	Micro Turbojet starter		







N°	Items to be Evaluated	Scoring Scale				
	MODULE1: 60/100					
01	Preparation of the work station	5				
02	Search of the proper documentation	5				
03	Respect of the protocols specified in the procedure sheet	14				
04	Appropriate use of the tools	2				
05	Respect of safety rules and protocols	14				
06	Complete technical investigation report	10				
07	System conformity	10				
	MODULE 2 : 25/100					
08	Correct identification of the problem	10				
09	Repairs validated by the conformity of the system	15				
	MODULE 3: 15/100					
10	Inspection of each of the procedure sheet's points	5				
11	Identification of the different systems' anomalies	10				
	Total	100				