

EBEC MOSCOW 2021

TEAM DESIGN

SEMIFINAL STAGE

First aid and transportation

In case of emergencies, such as forest fires, floods, earthquakes, victims may need emergency assistance, as well as transportation from the regions to Moscow to provide qualified, specialized medical care.

Task

To solve the indicated problem, you need:

1. Choose a Russian or foreign aircraft that meets the following requirements:

- The aircraft should be able to accommodate up to 4 injured and 8 doctors.
- The aircraft must be able to take off and land at regional airports.
- The flight range of the aircraft must be at least 9000 km.

2. Propose:

- Variants of the layout of the aircraft cabin, the list of equipment (take into account the characteristic severe injuries in the listed emergencies);
- A system for reducing flight loads (turbulence, take-off and landing overload) on bedridden patients;
- The possibility of providing emergency assistance in flight.

3. Evaluate:

- Materials used for the manufacture of the salon;
- Weight of the salon with equipment;
- Suppliers (developers).

EUROPEAN BEST ENGINEERING COMPETITION

Evaluation criteria:

1. Completion of item 1 of task 0-10;
2. Completion of item 2 of task 0-10;
3. Completion of point 3 of task 0-10;
4. Search and analysis of information 0-10;
5. Presentation and performance 0-10.

Requirements

1. The presentations in qualifying, semifinal and final stages for Case Study and Team Design have to be done in .pptx or .ppt format. For Team Desing in final stage presentation in .pptx or .ppt format is not required.
2. The solution presentation in qualifying stage must be no more than 7 slides, including slides about team and gratitude.

