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**Approved  
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March 3, 2020**

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March 3, 2020**

## **RULES for the Nazarbayev Fund Schools Challenge 2020**

### **Chapter 1. General Provisions**

1.1. These Rules determine the procedure for the "Nazarbayev Fund School Challenge - 2020" contest (*Contest*).

1.2. The organizers of the Contest are the Foundation of the First President - Elbasy, the Ministry of Justice of the Republic of Kazakhstan (*Ministry of Justice*), Nazarbayev University, National Institute of Intellectual Property (*NIIP*) and the Cranfield University (Great Britain) (*hereinafter collectively referred to as the "Organizers"*).

1.3 The Contest is sponsored by the Samruk-Kazyna Trust Corporate Fund and Air Astana, as well as other organizations.

### **Chapter 2. Purpose**

2.1. The Contest is held on an annual basis in order to stimulate and support the intellectual potential of Kazakhstani schoolchildren, increase their interest in creating products of intellectual activity and familiarize the general public with the creative and scientific achievements of young people.

### **Chapter 3. Subjects**

3.1. Technical and engineering specialties: transport and logistics (air, rail, sea, motor transport), oil and gas, mechanical engineering, architecture and construction, extraction and processing of raw materials, biotechnology, chemical industry, IT, biotechnology, robotics and others;

3.2. The subjects of the contest are determined on an annual basis, depending on the development priorities of the national economy and global trends;

3.3. The 2020 contest is dedicated to aerospace topics.

## **Chapter 4. Contest stages**

### 4.1. Stage I - Announcement:

4.1.1. No later than March 10, 2020, the Organizers announce the Contest's start on their online sites, Internet resources and social networks;

4.1.2. Akimats of regions, capitals and cities of republican significance ensure the distribution of invitation letters to regional schools, as well as ensure the announcement of the Contest's start on their websites, Internet resources and social networks;

### 4.2. II stage - Regional selection:

4.2.1. Akimats of regions, capital and cities of republican significance ensure the mandatory participation in the regional selection of at least 3 teams from each region;

4.2.2. Schools form teams of four participants and one leader in accordance with Chapter 6 of these Rules;

4.2.3. In the period from March 10 to May 5, 2020, teams submit an application for participation in the regional selection by registering at the link: <http://shapagat.kazpatent.kz/ru/nfsc> in accordance with Appendix 1;

4.2.4. During registration on the online platform, participants attach competitive works on specific topics (video presentation on YouTube, abstract);

4.2.5. The organizers (NIIP) of the Contest provide access to the online platform of the Contest to akimats of regions, capital and cities of republican significance for preliminary selection of teams for compliance with the requirements specified in Chapters 6 and 7 of these Rules;

4.2.6. After checking the compliance of the competitive works with the requirements of regional selection, the akimats of the regions, capital and cities of republican significance make an appropriate decision;

4.2.7. The selection committee, formed by the Organizers of the Contest, determines the winners of the regional round among the teams that have passed the preliminary selection.

### 4.3. Stage III - Summing up the regional selection:

4.3.1. According to the results of the selection conducted from May 12 to May 22, 2020, one team is determined from each region, for a total of 17 teams;

4.3.2. No later than May 25, 2020, the Organizers publish the results of the regional qualifying round on the Contest's online platform;

4.3.3. No later than June 5, 2020, the Organizers form a commission for the final qualifying round.

#### 4.4. Stage IV - Final selection and summing up:

4.4.1. No later than May 25, 2020, representatives of Cranfield University provide the Organizers (NIIP) with a task for the final qualifying round;

4.4.2. No later than May 27, 2020, the Organizers (NIIP) send homework to all the formed teams to participate in the final qualifying round in Nur-Sultan;

4.4.3. Between July 8 and 10, 2020, 17 regional selection winners will take part in the final qualifying round of the "Nazarbayev Fund School Challenge - 2020" in Nur-Sultan;

4.4.4. On the last day of the final round, the final selection committee determines 2 winner teams from among 17 teams and 2 most active participants from the remaining 15 teams for an educational trip to the Cranfield University (Great Britain). A total of 40 winners, unless otherwise provided by a decision of the Commission;

4.4.5. No later than July 13, 2020, the Organizers (NIIS) publish the results of the final qualifying round on the Contest's online platform.

#### 4.5. Stage V - Visa Support:

4.5.1. The organizers (NIIP) advise participants of the trip on filling out a visa application form and collecting documents for the next application for a visa to the UK, and also accompany them to the Visa Application Center in Nur Sultan;

4.5.2. No later than July 20, 2020, the Organizers (NIIP) together with the trip participants must submit all the necessary documents to the Visa Application Centers.

#### 4.6. Stage VI - Educational tour:

4.6.1. In the period from August 17 to August 24, 2020, the Organizers (NIIP) organize the educational trip of finalists to Cranfield University (Great Britain);

4.6.2. No later than October 30, 2020, the Organizers (NIIP) shall ensure that the quality of the process of organizing and conducting the Contest is assessed by filling out a feedback e-form by all participants in the regional and final rounds;

4.6.3. No later than October 30, 2020, akimats of regions, capital and cities of republican significance organize the finalists of the Contest to show presentations in the regions (in educational institutions) based on the results of the educational trip to Cranfield University (Great Britain) and their participation in the Contest;

4.6.4. Information on the presentations made is sent to the NIIP representatives no later than November 5, 2020.

## **Chapter 5. Selection committee and tasks**

5.1. The regional selection committee is formed from representatives of the akimats of the regions, the capital and cities of republican significance, Air Astana and Cranfield University (as agreed);

5.2. The final selection committee is made up of representatives (one from each organization) of the Foundation of the First President – Elbasy, Nazarbayev University, Samruk-Kazyna Trust, Air Astana and Cranfield University;

5.3. A Chairman of the selection commissions shall be a representative of the Cranfield University;

5.4. Commissions shall annually develop and approve the tasks for the regional and final rounds;

5.5. Regional qualifying round shall be conducted online;

5.6. Task for the regional qualifying round of 2020:

"1. Describe the forces acting on the aircraft in flight.

2. Describe how these forces change during landing."

## **Chapter 6. Requirements for teams and participants**

6.1. Students of secondary schools of the Republic of Kazakhstan aged 16 to 18, fluent in English, with achievements in the field of physics, mathematics and natural sciences as well as an experience of independent project activities, are eligible to participate in the Contest;

6.2. Good academic performance in abovementioned subjects and participation in aircraft modeling clubs are welcomed;

6.3. Several teams can participate from one school. Each team shall consist of four participants (students) and one leader;

6.4. Teams and participants who won prizes in the Nazarbayev Fund Schools Challenge Contests previous years are not allowed to participate;

6.5. Team leader is responsible for all members of his team within the competition rules (responsible for his actions towards Organizers) and guarantees the participation of the whole team at all stages of the Contest and in training events;

6.6. Any information shared with the team leader during the Contest is considered to have been provided to the whole team;

6.7. Akimats of regions, capital and major cities will cover transportation costs, accommodation costs in Nur-Sultan, as well as the costs of visa fees of their school teams.

## **Chapter 7. Requirements to video presentations**

7.1. Participating teams shall submit their executed pieces of work on the given topics (video presentation, summary (description of the work));

A video presentation is a short video lasting up to 5 minutes, during which each member of the team, with the exception of a team leader, makes a speech. Video presentation shall be recorded in a free form in horizontal resolution, by any available device. Editing is allowed.

- Video presentation shall be in the English;
- Video presentation size - no more than 300 MB, mp4, avi, webm formats;
- Summary is a brief description of the video presentation;
- Language of the summary is English;
- The summary shall be up to 10 pages of A4 format;
- Presentation file format-pdf, docx, doc, odt, ppt, pptx, size-no more than 20 MB;

Summary shall be provided in the English in electronic form in Microsoft Word format, font Times New Roman, size-14, paragraph indentation-1.25 cm, line spacing-1, alignment in width. Document margins: left - 3 cm, right - 1,5 cm, top and bottom - 2 cm the Text without hyphenation. Page numbering-at the bottom of the page, in the center. Making the header row bold. The first line (right alignment) contains the name of the team. On the second line: the name of school. On the third line: the topic of the work.

Additional documents may be attached, if any: drawings, diagrams, photographs, graphs, letters of recommendation, etc.

7.2. The task is considered completed if the work meets the stated requirements;

7.3. The team accepts all the conditions set in these Rules.

## **Chapter 8. The procedure for evaluation of pieces of work**

8.1. Evaluation of the results is carried out according to the criteria on a scale from 0 to 10 points, in the following order:

- Correctness of the answer;
- Creativity (persuasiveness and brilliant performance);
- Substantiation and reasoning (examples);
- Quality of presentation (as in compliance with requirements);
- Use of English (literacy, level of English);

Evaluation criteria is applied in hierarchical order, if teams get equal score.

8.2. Commission members shall review works of the teams and fill out an evaluation sheet for each team on the online platform (*Appendix No. 3*).

## **Chapter 9. Award Ceremony**

9.1. As part of the educational program the finalists of the Contest visit Cranfield University, a foreign partner, and receive certificates confirming

familiarization with the relevant vocational guidance program and obtaining basic knowledge;

9.2. In a solemn ceremony in Nur-Sultan, the winners would be awarded diplomas from the Minister of Justice as well as from the Foundation of the First President - Elbasy.

<b>Registration form for the teams of «Nazarbayev Fund School Challenge – 2020»</b>			
Name of the team (region, city)			
Educational institution (name, number)			
<b>Team members data:</b>			
Full name	Date of Birth	Individual identification number	Contacts (WhatsApp)
1.			
2.			
3.			
4.			
<b>Team leader data:</b>			
Full name	Date of Birth	Individual identification number	Contacts (WhatsApp)
5.			
English level	<input type="checkbox"/> Second language (please rate yourself) <input type="checkbox"/> Proficient <input type="checkbox"/> Advanced <input type="checkbox"/> Upper-Intermediate <input type="checkbox"/> Intermediate <input type="checkbox"/> Pre-Intermediate <input type="checkbox"/> Elementary <input type="checkbox"/> Beginner		
<b>Contact information:</b>	Phone (mobile) of the team leader or team captain.: Email (required):		

**Agreement**

<p>We, the above team, hereby confirm our participation in «Nazarbayev Fund School Challenge – 2020». In accordance with the Rules of the Contest, we have read the terms of participation, and we are fully responsible for the accuracy of the submitted data. We give consent to the processing of data provided during registration, permission to photo and video recording and don't object to the use of the materials by the Organizers to promote the Contest.</p>
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Confirmation \* (you must accept the terms set out above)

We accept the terms	<input type="checkbox"/> yes <span style="margin-left: 100px;"><input type="checkbox"/> no</span>
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\*- required

<b>Registration form for members of the selection Committee</b>				
<b>Name</b>				
<b>Citizenship</b>				
<b>Name of institution and place of work (company, University, etc.):</b>				
<b>Contact information:</b>	Phone number		Mobile number	
	Email:		Website	

\* By signing up below, I consent to the processing of my personal data.

Signature \_\_\_\_\_

Date \_\_\_\_\_



**Evaluation of the results of the final qualifying round of the Nazarbayev Fund Schools  
Challenge - 2020**

Name of the team \_\_\_\_\_

Region \_\_\_\_\_

<b>Evaluation criterion</b>	<b>Rating from 0 to 10</b>
Correct answer	
Creativity (persuasiveness and brightness of performance)	
Validity and argumentation (examples)	
Presentation quality (Compliance)	
Use of English (literacy, level of English)	