

The Free Unknowns & Unknowns Rules

For Yak 52/Intermediate, Advanced and Unlimited the Free Unknowns are Programs 2, 3 & 4. The following rules are a combination of the FAI/CIVA Section 6 and AAC rules for the Free Unknowns. The AAC rules deal with the format for selecting figures and so at this point I have edited/left out the FAI/CIVA rules for country selection of figures. Should you be planning on competing internationally then you will need to understand the FAI/CIVA process for selecting figures and submitting sequences.

(copied from CIVA Section 6: Part 1 Powered Aircraft 2020)

2.3. Programmes 2, 3 & 4 - The Free Unknown Programmes

2.3.1.1. For the Free Unknown Programmes, figures will be chosen from Appendix A. A maximum of 10 figures may be submitted. Repetition of any manoeuvre with the same catalogue number is not allowed within any one programme. Repetition of a complete figure from Programme 2 is not allowed in Programme 3, and repetition of a complete figure from Programmes 2 and 3 is not allowed in Programme 4. The intent of this regulation is that sequences for Programmes 2, 3 and 4 will be different.

Category	Programme	Figure Minimum K	Figure Maximum K
Yak 52 / Intermediate	2	12	20
	3	12	25
	4	12	30
Advanced	2	15	30
	3	15	35
	4	15	40
Unlimited	2	22	No Limit
	3	22	No Limit
	4	22	No Limit

2.3.1.4. Sequences for Programme 2, 3 or 4 are to be composed using the 10 officially approved figures submitted by the National Teams, and additional figures from the Aresti System (Condensed) as currently amended by CIVA, solely to aid in composition. **These additional figures may contain repetitions despite rule 2.3.1.1.**

a) In the nomination of figures there will be a limit on the number of figures selected from the following:

Family	Yak 52 / I	Advanced	Unlimited
1.1.6 – 1.1.11			Max of two from columns 3 & 4
1.2.3, 1.2.4	Max of one only from columns 3 and 4		
8.4.1 to 8.4.4, 8.4.15 to 8.4.18, 8.5.1, 8.5.2, 8.6.1, 8.6.2			A maximum of two from columns 3 & 4

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9.9	Min. 1, max. 2.	Min. 2, max. 4.	A maximum of four*
9.10	None		A maximum of four*
			* Total of Families 9.9 and 9.10 not to exceed six, at least one of which must be vertically climbing
9.11 & 9.12	A maximum of one figure		

b) There will not be more than 1 flick roll (Family 9.9 or 9.10) per figure.

c) At least one additional figure, up to a maximum of four, must be included in each sequence. The K-factors for these additional figure(s) shall be modified so that they share equally an aggregate of 24K. (note: Additional figures are referred to as “**linking figures**” in Appendices A and in the Sporting Code document “International Aerobic Events: Statistical Method for Processing Scores”, nevertheless they are allowed to be **placed anywhere in the sequence, including as first or last figure**).

d) **Sequences will consist of no more than 14 figures.**

e) In sequence composition, figures may be used starting from one or the other axis. Nevertheless, figures with their entry and exit on the same axis must maintain their construction unchanged, i.e. with the exit flight path in the entry direction or with the direction of flight reversed as originally drawn.

2.3.1.5. The contest Organiser shall provide copies of the list of figures to all competing NACs, and each NAC may submit to the International Jury a maximum of two sequences, composed of these figures, for each Programme. The contest Organiser will determine the deadline for submitting proposed sequences. Computer files must be submitted, and must contain complete pages of all five Forms: A, B, C, R and L. Acceptable file formats and responsibility of submitting NACs in terms of up-to-date software are as described in rule 2.2.1.9.a).

(NACs are National Aerobic Clubs, thus at an international level each country can submit up to two sequences, each pilot DOES NOT submit a sequence. So, one must work as a team if there are more than 2 pilots representing that country. Australian State and National competitions each pilot may submit a sequence)

2.3.1.6. Publication and Selection of Free Unknown Programmes

a) All proposed sequences received by the deadline must be checked, and corrected if necessary, by the International Jury.

b) The International Jury shall publish all sequences received from the NACs not later than 24 hours before the start of the Programme.

c) At least 12 hours before the commencement of each Programme, each competitor will notify the Organiser which of the proposed sequences he/she will fly.

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d) Prior to the flight order and paperwork being issued to the judging line, Team Managers or individual competitors as appropriate, shall verify the correctness of the allocation of selected sequence per pilot; this verification shall be recorded by the Organiser.

e) At least 1 hour before the start of each Programme, the Organiser shall provide each NAC with a list of the Free Unknowns chosen by each competing pilot.

2.3.1.7. Training for the Unknown Programmes is not permitted. Competitors violating this regulation will be disqualified.

For state competitions it is not always possible to adhere to the above time frames and/ provide pilots (NAC) with a list of the Free Unknowns chosen by each pilot.

From AAC Regulations:

2.60.1 Intermediate (CIVA), Advanced, and Unlimited Free Unknown Programs shall be conducted in accordance with FAI Sporting Code, Section 6, with the exception of the following changes.

2.60.2 Each competitor shall submit only one figure in accordance with FAI Sporting Code, Section 6 Para 4.3.4.3. The order of selection of figures shall be by a random draw.

2.60.3 In the event that there are less than 10 competitors in a category, the remaining figures shall be selected by the competitors from a bank of no less than 15 figures presented by the Chief Judge. The selection of figures shall be in the same order as the initial draw, with each competitor selecting a figure until a total of 10 figures (including competitor figures) are selected.

2.60.4 The selection of figures shall be in accordance with FAI Sporting Code, Section 6, Para 4.3.4.4. In the event that a Chief Judges figure contains a repetition of a catalogue number from family 9 only, the competitor shall be permitted to change the element to meet the requirements of FAI Sporting Code, Section 6, Para 4.3.4.4. The competitor is only allowed to substitute elements of the same rotational value as the original figure. I.E. a 360° roll cannot be replaced with a 720° roll, but could be replaced with a 2 of 2.

2.60.5 Any other catalogue numbers shall not be repeated.

2.60.6 With the exception of linking figures, no repetition of figures between programs 2, 3 and 4 is permitted. (i.e. individual catalogue numbers may be repeated but not in the same combination).

2.60.7 Due to time constraints when holding a competition, the Contest Jury may elect to fly a Chief Judged designed Unknown sequence for one or more of the programs.



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Sportsman Program 3 (The Unknown)

From AAC Regulations:

2.61.4 All figures for the Sportsman Unknown sequence will be selected from Appendix 2-3a of this manual. The sequence will contain a minimum of 6 and a maximum of 12 figures, with an aggregate K factor of up to 120.

The Sportsman unknown will be designed by the competition committee and given to the Sportsman pilot 24 hours before the commencement of Program 3 where possible.

So, whilst sportsman pilots do not get to select or nominate figures for the unknown or the opportunity to design their unknown there is no reason for them not to be proficient in the figures for an unknown before a competition. The figures in the attached table are the figures that the competition committee must use in designing the Unknown. Thus, there is ample time during the year for a Sportsman pilot to become proficient in flying the figures and in various combinations. Design your own unknowns to practice.

Graduate Program 3 (The Unknown)

2.61.3 The Graduate Unknown sequence will be created from figures within the current Known with the order of figures altered to create a sequence that is different from the Known sequence.

So again, whilst graduate pilots do not get to design their unknown there is no reason not to start redesigning the known sequence as means of practicing unknowns. Who knows you may even design the sequence you get given at the competition.

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