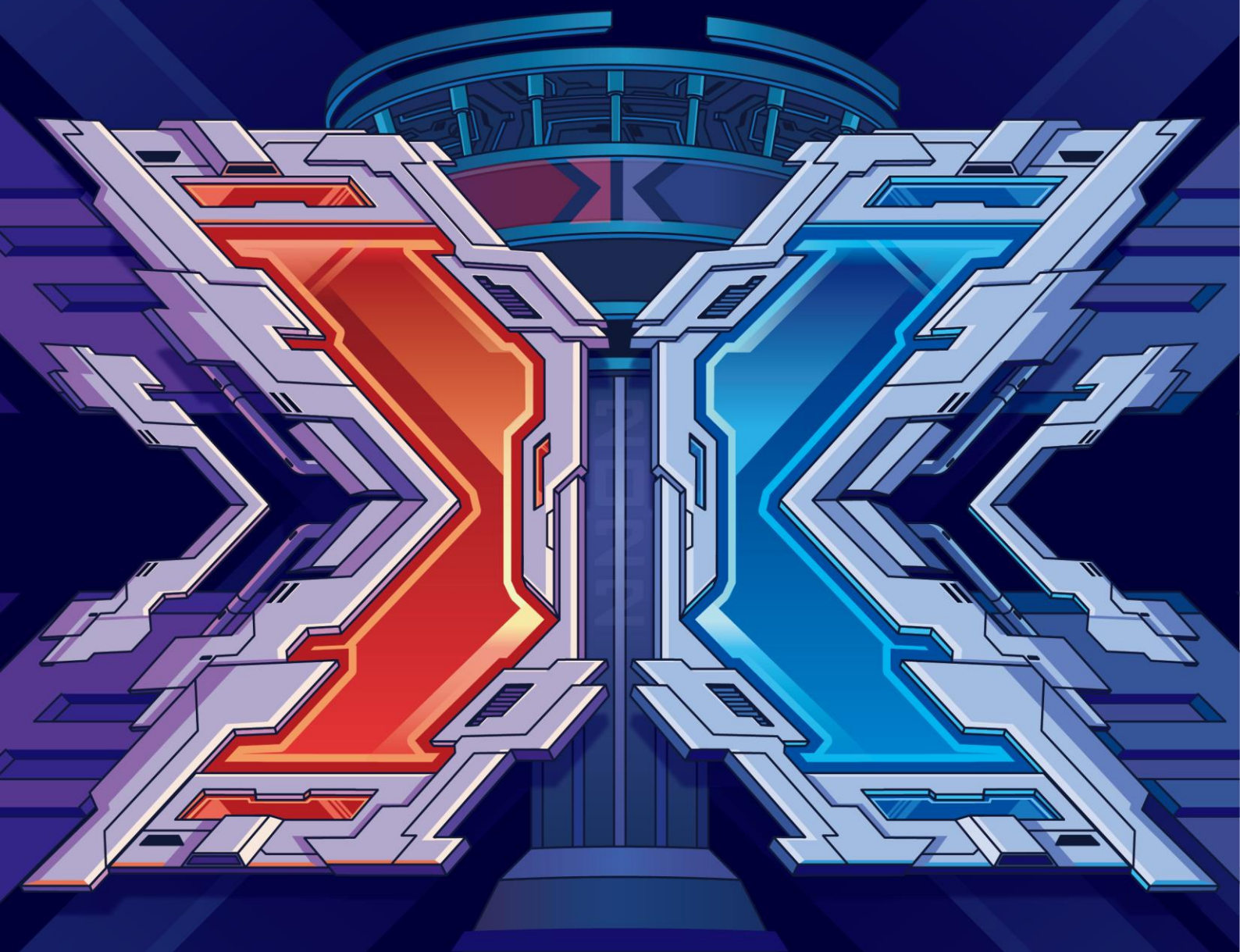


**MAKE X**

**V1.0**

2021 MakeX Robotics Competition

# MakeX Mentor Program



Edited By MakeX Robotics Competition Committee

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# 1. Introduction

MakeX Mentor Program (MMP) is a program initiated by MakeX Robotics Competition Committee for evaluating and certifying MakeX mentors. The purpose of this program is to cultivate a more skillful and passionate mentor in different countries to teach and support more people around the world. Started in 2020, MakeX hopes to unite all mentors in the world to spread knowledge, spirit of MakeX, and promote the development of STEAM education.

MakeX Robotics Competition Committee aims to inspire more people to solve real-world problems through research, exploration, and innovative thinking, which helps to envision a world where STEAM education is celebrated by all and where young people keep exploring and solving new challenges driven by passion and excitement for science and technology.

The MakeX mentors can be certified as MakeX Junior Mentor, MakeX Intermediate Mentor, MakeX Senior Mentor, and each level has different rights and benefits.

## 2. Mentor Requirement

- As a MakeX certified mentor, you must recognize the MakeX Spirit: Creativity, Teamwork, Sharing, Fun. Also, you need to keep the following requirements specification in your mind.
- Learn the MakeX Technical Guide, the Competition Guide, and other regulations.
- Abide by the rules and regulations, avoid illegal guidance, and comply with the order of competition.
- Adhere to the purpose of cultivating students' creativity, logical thinking, and practical ability. Any excessive involvement in student's creation process including the robot construction is not encouraged.
- Adhere to the fairness and justice of the competition and education.

- If the mentor is served as the technical support, trainer, operation manager of the MakeX competition event, the mentor should promote the competitive spirit and keep the fairness and justice of the event. Besides, it is important to respect the referee group and any of the decisions they made during the competition.

## 3. Application Method

### 3.1 Application

The application will be announced on the website, please refer to the latest information through the website: <https://www.makex.cc/en>

### 3.2 Requirement

#### 3.2.1 Application Qualification

##### **MakeX Junior Mentor**

Open for all mentors who have experience in participating MakeX or mentors who are interested in MakeX Mentor Program.

##### **MakeX Intermediate Mentor**

Only open for mentors who have MakeX Junior certificates.

##### **MakeX Senior Mentor**

Only open for mentors who have MakeX Intermediate certificates.

#### 3.2.2 General Requirement and Responsibility

##### **MakeX Junior Mentor**

MakeX Junior Mentor is the basic level of the MakeX Mentor Program, the mentor should fully understand the MakeX competition rules and participation process. Also, the mentor should be capable to manage and support the city/regional competition and training.

### **MakeX Intermediate Mentor**

MakeX Intermediate Mentor is the backbone of the MakeX Mentor Program. Mentor at this level should have a deep understanding of MakeX rules, technical knowledge, and rich participation experience. Also, mentors should be capable of managing and operating the national competition, international competition, and junior mentor training, dealing with any unpredicted situations.

### **MakeX Senior Mentor**

MakeX Senior Mentor is the highest level of the MakeX Mentor Program. Mentors should be responsible for supporting organizers to organize the Continental Championship, the World Championship, and Intermediate Mentor Training, and be the representative for MakeX in big events or exhibitions. As a senior mentor, the mentor should not only participate in MakeX competition programs, but also have more knowledge and experience of other competition, FIRST, VEX, etc.

## **3.3 MakeX Junior Mentor Application Process**

### **MakeX Junior Mentor Application Process**



#### **P01 Registration**

All the applicants need to complete the online registration to obtain a mentor account on: <https://www.makex.cc/en>, and registration is open at any time of the year.

#### **P02 Evaluation**

The evaluation could be organized by MakeX Robotics Competition

Committee or the official local organizer. Most of the evaluation at the junior level will be arranged by the local organizer around the world. All the evaluations will be announced on the MakeX website.

To apply for the MakeX Junior Certificate, please try to reach the local organizer or contact MakeX Robotics Competition Committee by filling in the application form via email.

(Email Address: makex\_overseas@makeblock.com )

#### Evaluation Criteria

Evaluation Item	Content	Standard	Remark
Online exam	Starter Program- Basic technical knowledge	For technical Knowledge >80, Passed	Select one of the MakeX programs
	Starter Program- MakeX Rules	≤ 80, Failed For make Rules	
	Challenge Program- Basic technical knowledge	>60, Passed	
	Challenge Program- MakeX Rules	≤ 60, Failed	

#### P03 MakeX Junior Application Form (Template)

\*All your personal information will be strictly confidential.

MakeX Junior Mentor Application Form			
Full Name		Gender	
Country		City	
Passport (Optional)			
Phone Number (Optional)	Country Code + Number		
Email			

Company/Organization/School	
<b>Participation Experience</b>	
Date	(Please fill in the date of the competition you have joined)
Experience	<p>e.g.  Competition date: Dec. 22, 2019  Competition name: 2019 MakeX Robotics Competition - China  Competition program: Starter  Team number: X010001  Team Number: Jet Team A  Attachment: please provide any materials which can prove that you have joined in the previous competition. (e.g., certificate, onsite videos or photos, registration information, etc.)</p>

#### P04 Certificate Issuing

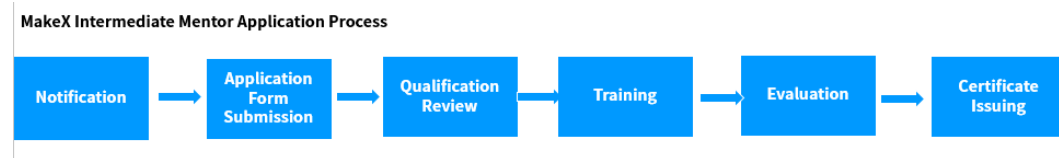
All qualified mentors will receive the digital certificates from the local organizers or the MakeX Robotics Competition Committee and the certificate is valid for two years. Each certificate will have a unique certificate ID, for example:

MakeX Junior Mentor Certificate ID: MJ20200809-00001





## 3.4 MakeX Intermediate Mentor Application Process



### P01 Notification of MakeX Intermediate Mentor Application

The certified junior mentor will receive the notification of MakeX Intermediate Mentor application every year through E-mail or from the local organizers. (The exact date will be announced on MakeX official website). The number of qualified MakeX Intermediate Mentor will be limited and announced in the notification. The final result of a qualified intermediate mentor will be announced on the website.

### P02 Submit the Application Form

The MakeX Junior Mentor needs to fill in the application form and ensure the authenticity of the information. MakeX Robotics Competition Committee will review and check all the information before the training.

#### MakeX Intermediate Mentor Application Form (Template)

\*All your personal information will be strictly confidential.

MakeX Intermediate Mentor Application Form				
Name		Gender		Profile Photo
Country		City		
Passport (Optional)				
Phone Number (Optional)				
Email				
Company/Organization/School				



<b>Personal Introduction</b>	
Please briefly introduce yourself, and explain why do you want to apply for MakeX Intermediate Mentor and how will you support and promote MakeX if you can be MakeX Intermediate Mentor.	
<b>Detailed Evaluation Criteria</b>	
<b>Evaluation Dimension 1</b>	<b>Judge Criteria</b>
Contribution to Content	Any materials/courses related MakeX which can show your contribution
Description	
e.g. Please write down what kind of content you have developed based on MakeX and did you share with others?	
<b>Evaluation Dimension 2</b>	<b>Judge Criteria</b>
Contribution to Team	The number of teams and the certificates the team obtained.
Description	
e.g. 1.Please write down the number of teams you mentored and which program the team participated in (Team number and name). 2.Please write down the awards & certificates the team obtained (Champion, Runner-up, Second Runner-up, Outstanding Awards etc.). 3. Please upload the certificates or other documents on Google Drive and fill the link in appendix.	
<b>Evaluation Dimension 3</b>	<b>Judge Criteria</b>
Contribution to MakeX Event	Support MakeX events as any roles including competition, training, etc.
Description	
e.g. Please write down which competition you have supported and please upload the proof materials on Google Drive and fill the link in the appendix.	

<b>Evaluation Dimension 4</b>	<b>Judge Criteria</b>
Contribution to Sharing	Promote MakeX in anywhere or share knowledge with others.
Description	
<p>e.g.</p> <p>Please write down what kind of sharing and promotion you have done. Also, please upload any materials which can prove your contribution to Google Drive and fill the link in the appendix.</p>	
<b>Evaluation Dimension 5</b>	<b>Judge Criteria</b>
Other Contribution	Any contribution related to MakeX
Description	
Please write down anything you want to add.	
<b>Appendix</b>	
Please write down the Google Drive Link or other links for access to your materials.	

### P03 Qualification Review

All the application forms will be reviewed by MakeX Robotics Competition Committee. The following circumstances will not be eligible to participate in the MakeX intermediate mentor training:

- Non-certified MakeX Junior Mentor or the junior mentor certificate is expired.
  - The information provided is not correct.
  - The applicants should at least fill in two of the contributions.
- Otherwise, it is disqualified.

### P04 MakeX Intermediate Mentor Training

The mentor who passed the qualification review will be eligible to join the MakeX Intermediate Mentor Training. All mentors could get information about the training through E-mail, including training schedule, content, venue, and

other information.

#### Training Schedule

Date	Event
Day 1	Theoretical Training: <ul style="list-style-type: none"> <li>● New rules and kits for new season</li> <li>● Intermediate technical knowledge</li> <li>● Competition operation skills training</li> </ul> Written Exams: <ul style="list-style-type: none"> <li>● Intermediate technical knowledge (Starter Program)</li> <li>● Intermediate technical knowledge” (Challenge Program)</li> <li>● MakeX competition skills</li> </ul>
Day 2	Hands-On Practice: <ul style="list-style-type: none"> <li>● 24 hours Makerathon</li> </ul>
Day 3	Makerathon Competition

#### P05 Evaluation

The number of mentors who can obtain the MakeX Intermediate Mentor certificate is fixed and limited. The final qualified mentors will be decided according to their ranking, and the total score must be higher than 130 points. (130 points excluded)

The Calculation Method of total score:

##### 1. The score of written exams

- The score of written exams = the score of “Intermediate technical knowledge (Starter Program + Challenge Program) +the score of “MakeX Competition Skills”.

\*Remark: the total score of written exams is 200 points.

##### 2. The score of hands-on practice

The hands-on practice will be a 24 hours Makerathon. Mentors who obtain the top 3 places in Makerathon can get 100 points, the top 30% can get 80 points. Mentors who have complete the mission required can get 60 points. Besides, mentors who actively engage in supporting the arrangement of hands-on practice will get extra points according to the circumstances.

\*Remark: the total score of hands-on practice is 100 points.

### 3.Total score

Total score= the score of written exams \*70% + the score of hands-on practice \*30%

### P06 Issue Certificate

All qualified mentors will receive the digital certificates and the certificate is valid for two years. Each certificate will have a unique certificate ID.

e.g. MakeX Intermediate Mentor Certificate ID: MI20200800-00001



## 3.5 MakeX Senior Mentor Application Process

MakeX Senior Mentor Application Process



### P01 Notification of MakeX Senior Mentor Evaluation

The certified intermediate mentor will receive the notification of the MakeX Senior Mentor application every year by E-mail. The number of qualified MakeX Senior Mentor will be fixed and limited. The final result and all the important notice of qualified senior mentors will be announced on the website.

## P02 Submit the Application Form

The MakeX Senior Mentor needs to fill in the application form and ensure the authenticity of the information. MakeX Robotics Competition Committee will review and check all the information before the training. If the false information is provided, the mentor will not be qualified to obtain the certificate.

As the highest level in MakeX Mentor Program, MakeX Senior Mentor is expected to have an in-depth knowledge of STEAM Education with high reputation for the expertise in this industry. In this way, the mentor can also assist MakeX to improve the competition programs and provide suggestions to the organizing committee.

### MakeX Senior Mentor Application Form (Template)

MakeX Senior Mentor Application Form			
Name		Gender	
Country		City	
Passport (optional)			Profile Photo
Phone Number(optional)			
Email			
Company/Organization/School			
Personal Experience Related with Robotics Education			
Please introduce your personal experience related to robotics education.			
Detailed Evaluation Criteria			
Evaluation Dimension 1	Judge Criteria		

Contribution to Content	Any materials/courses related MakeX which can show your contribution
Description	
<p>e.g.</p> <p>Please write down what kind of content you have developed based on MakeX and did you share with others?</p>	
<b>Evaluation Dimension 2</b>	<b>Judge Criteria</b>
Contribution to Team	The number of teams and the certificates the team obtained.
Description	
<p>e.g.</p> <p>1.Please write down the number of teams you mentored and which program the team participated in (Team number and name).</p> <p>2.Please write down the awards &amp; certificates the team obtained (Champion, Runner-up, Second Runner-up, Outstanding Awards, etc.).</p> <p>3. Please upload the certificates or other documents on Google Drive and fill the link in the appendix.</p>	
<b>Evaluation Dimension 3</b>	<b>Judge Criteria</b>
Contribution to MakeX Event	Support MakeX events as any roles including competition, training, etc.
Description	
<p>e.g.</p> <p>Please write down which competition you have supported and please upload the proof materials to Google Drive and fill the link in the appendix.</p>	
<b>Evaluation Dimension 4</b>	<b>Judge Criteria</b>
Contribution to sharing	Promote MakeX in anywhere or share knowledge with others.
Description	
<p>e.g.</p>	

Please write down what kind of sharing and promotion you have done. Also, please upload any materials which can prove your contribution on Google Drive and fill the link in the appendix.	
<b>Evaluation Dimension 5</b>	<b>Judge Criteria</b>
Contribution to Competition Program	Provide professional suggestions report or feedback on the rules, program design, and curriculum design, etc.
Description	
Please feel free to write down anything or provide materials for proving your contribution.	
<b>Evaluation Dimension 6</b>	<b>Judge Criteria</b>
Contribution to Training/Competition/Exhibition	Organize, coordinate, or support for the MakeX events such as competition, training, exhibition, and so on.
Description	
e.g. I have supported MakeX Competition in China as the chief judge on Oct.10, 2020.	
<b>Appendix</b>	
Please write down the Google Drive Link or other links for access to your materials.	
<b>Contribution to STEAM Industry</b>	
<b>Judge Criteria</b>	
National or World-Class mentor/referee certificate. Coached the champion team of the National Competition or World Championship. Other awards related to robotics or STEAM.	
Description	



Please feel free to write down anything or provide materials for proving your contribution.
<b>Annual Work Plan</b>
Please briefly write down your plans related to MakeX and how can you support MakeX if you become a MakeX senior mentor.
<p>e.g.</p> <p>Support MakeX for marketing and business cooperation.</p> <p>Promote MakeX to be the partners of the local authorities.</p> <p>Expand the government partnership and provide the project opportunities for the MakeX.</p> <p>Assist the MakeX to polish the rules and give a complete report on how to improve MakeX.</p>

### P03 Qualification Review

All the application forms will be reviewed by MakeX Robotics Competition Committee. The following circumstances will not be eligible to participate in the MakeX Senior Mentor training.

1. The information provided is not qualified.
2. The applicant must fill in the Evaluation Dimension 6, otherwise it is not eligible.
3. The applicant must fill in at least three of the contribution. Otherwise, it is disqualified.

### P04 MakeX Senior Mentor Training

The mentor who passed the qualification review will be eligible to join the MakeX Senior Mentor Training. All mentors must join the on-site training and obtain the certificate according to the selection rules.

The senior mentor training will be organized during the time of the MakeX World Championship and the place will be Makeblock Headquarters.

### Training Schedule

Time	Content	Remark
------	---------	--------

Day 1	CEO Symposium	Full attendance
	Discussion Forum (The development of MakeX and discussion of advance robotics technology)	
Day 2	Written Exam:	The score of written exams will be given according to the notification before the training.
	Discussion meeting of the rules for the new season	Full attendance
	Brainstorming of competition program design	
Day 3	Teamwork: Competition program design	The score of hands-on practice will be given according to the notification before the training.
	Teamwork: Competition program presentation	
	Evaluation and voting of the teamwork project	
Day 4-5	Makeblock Makerathon	

\* The mentor can obtain a "Participation Certificate" of MakeX Senior Training if participate in the whole training sections.

## P05 The Selection Process of MakeX Senior Mentor

There are three phases for selecting the MakeX Senior Mentor.

### Phase 1: Attendance Record

The mentor can be qualified for the next phase without being late or leaving early for all sections of training.

### Phase 2: Shortlist

There will be a shortlist announced after the written exam and hands-on practice. The calculation of the total score is as follows.

**Total Score=The Score of Written Exam \* 70% + The Score of Hands-on Practice \* 30%**

**Q:** How many people can be qualified for the shortlist?

**A:** If the planning certified senior mentor is 4, the number of shortlists is 6 ( $4 * 150\% = 6$ ).

### Phase 3: Final Vote

MakeX Robotics Competition Committee will organize the current senior mentor group (if have) to review all the materials submitted by these candidates in the shortlist and vote to determine the certified senior mentor. If there is no current senior mentor group, the decision will be made by members of the MakeX Robotics Competition Committee (more than two-thirds of member's vote is valid).

### P06 Issue Certificate

The certified senior mentor will receive the confirmation and digital certificate from MakeX Robotics Competition Committee. The certificate is valid for two years. Each certificate will have the unique certificate ID, for example:

MakeX Senior Mentor Certificate ID: MS20200809-00001



## 4. Management

## 4.1 Right and Responsibility

Role	Benefit	Obligation
MakeX Junior Mentor	<ul style="list-style-type: none"> <li>Obtain the certificate of MakeX Junior Mentor.</li> <li>Qualify to host the MakeX teacher training, or teacher activities supported by MakeX.</li> <li>Eligible for applying the annual award of an excellent junior mentor.</li> <li>Eligible for submitting the application of MakeX Intermediate Mentor and participating in mentor training.</li> </ul>	<ul style="list-style-type: none"> <li>Assist MakeX or local organizer to organize the competition, training or other marketing activities.</li> <li>Share the MakeX experience with the new participating teams or mentors.</li> </ul>
MakeX Intermediate Mentor	<ul style="list-style-type: none"> <li>Obtain the certificate of MakeX Intermediate Mentor.</li> <li>Qualify to host the MakeX promoting and training activities and obtain the honorarium. The honorarium will be decided by MakeX or the local organizer. (National/International Level)</li> <li>Qualify to apply as the MakeX consultant for reviewing the rules of the new season.</li> <li>Eligible for applying the annual award of an excellent intermediate mentor.</li> <li>Eligible for participating in other MakeX activities.</li> <li>Eligible for applying the new MakeX products as</li> </ul>	<ul style="list-style-type: none"> <li>Cooperate or co-organized with local organizers to operate at least one local competition event as an operation manager.</li> <li>Responsible to be a trainer of at least one training event every year.</li> <li>Complete at least 100 minutes of live-streaming for sharing the mentor experience, or sharing technical/teaching/event-related documents with no less than 2000 words. For the live streaming, the mentor can decide the topic but the content must be related to MakeX competition or Makeblock products. MakeX has the right to</li> </ul>

	<p>the first batch of pilot place to test and enjoy the relevant preferential policies.</p> <ul style="list-style-type: none"> <li>• Eligible for submitting the application of MakeX Senior Mentor and participating in mentor training.</li> </ul>	<p>publish the materials on the website.</p> <ul style="list-style-type: none"> <li>• It is obliged to maintain the reputation of the MakeX Robotics Competition and actively promote MakeX events.</li> </ul>
MakeX Senior Mentor	<ul style="list-style-type: none"> <li>• Obtain the certificate of MakeX Senior Mentor.</li> <li>• Qualify to host the MakeX promoting and training activities and obtain the honorarium. The honorarium will be decided by MakeX or the local organizer. (International/Continental Level)</li> <li>• Eligible for applying the annual award of excellent senior mentor.</li> <li>• Obtain the annual honorarium of being senior mentor.</li> <li>• Obtain the candidate qualifications of the expert advisory group of the MakeX Robotics Competition Committee</li> <li>• Obtain the new MakeX products as the first batch of pilot place to test and enjoy the relevant preferential policies.</li> <li>• The profile will be displayed on the MakeX website.</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible to be a trainer of at least two training events every year.</li> <li>• Assist MakeX to develop and verify competition programs for the new season, and provide a feasible suggestion for the programs.</li> <li>• Responsible for supporting the local MakeX events including competition, exhibition, conference, etc.</li> <li>• Attend the MakeX World Championship and support for the competition.</li> <li>• Responsible to support works related to MakeX World Championship every year;</li> <li>• It is obliged to maintain the reputation of the MakeX Robotics Competition and actively promote MakeX events.</li> </ul>

## 4.2 Annual Evaluation and Renewal

The validity of MakeX Mentor Certificate is 2 years. Mentors need to participate in the annual evaluation, which will be organized online in April and September each year, in order to renew the expiration of the certificate. Those who pass the evaluation will get the renewal of certificate. Those who fail the evaluation need to re-apply for the exam as the certificate expires.

Content of Examination: current competition rules

Standard: >60, Passed. ≤60, Failed.

\*During the annual evaluation, MakeX intermediate/senior mentor also needs to provide proof materials related to contribution to MakeX Robotics Competition Committee.

## 4.3 Penalty for Violation

Penalty		Implication	Violation
A	Demotion	Disqualify for being MakeX certified mentor at the actual level, only allow to participate in the annual evaluation of the lower level.	<p>*The listed behaviors below are only some of the behaviors that may lead to penalties. MakeX Robotics Competition Committee has the right to decide the penalties according to the actual situation.</p> <p>1. Violation of national laws and subject to civil or criminal penalties such as stealing property, fighting, etc.</p> <p>2. Inappropriate behavior at the competition, such as disrespect referees, make conflicts with other teams, affect the order of the competition, cheat on the competition, etc.</p>
	Blacklist	Disqualify for being MakeX certified mentor	
B	Unable to attend training	Unable to attend training activities in one year as a trainer	
	Unable to get a promotion	Unable to be promoted and get the higher mentor certificate	

C	Warning	Affect the evaluation of annual mentor awards	3. Plagiarism and ripping off the question bank, or use the exam paper without getting permission from MakeX. 4. Inappropriate comments on MakeX in public and cause the bad influence on the MakeX brand image.
	Record demerits	Disqualify for the annual mentor awards	

## 4.4 Benefits of Service

Each mentor who provides service to MakeX International Robotics Competition Committee or local organizer can receive a corresponding honorarium payment internationally or locally. The detailed honorarium will be decided by MakeX International Robotics Competition Committee or local organizer.

### 4.4.1 Field Responsibilities

All certified mentors including junior, intermediate, senior-level can apply the position launched by the website. The listed positions the mentor can undertake as follows.

#### FR01 Trainer of MakeX

Be the trainer of MakeX training events or promotion events.

#### FR02 Operation Manager of MakeX

Be the operation manager to assist the competition, and coordinate the preparation and execution works such as volunteer & referee recruitment, preparation of materials, and team support.

#### FR03 Technical Support

Be the MakeX technical support to assist the exhibitions, training events, and showcase.

### 4.4.2 Annual Honorarium Payment

MakeX Senior Mentor group is the most important team for MakeX and



MakeX will work closely with the senior mentor group to make the competition more professional.

Each senior mentor will receive an annual standard allowance of 8,000 CNY (including tax) per year. This standard could be adjusted according to the actual situation.

## 4.5 Annual Timeline

Month	Key Event
December-March	Mentor Program Manual Update
	Intermediate Mentor Application and Certification
April	Annual Evaluation
September	Annual Evaluation
October-December	Mentor Awards Selection
	Senior Mentor Application and Certification

\*The application and certification of junior mentors depends on the local organizer.

\*MakeX Robotics Competition Committee reserves the right to final interpretation.





Edited By MakeX Robotics Competition Committee

Official Website:  
[www.makex.cc/en](http://www.makex.cc/en)

Email:  
[makex\\_overseas@makeblock.com](mailto:makex_overseas@makeblock.com)



Facebook: MakeX