

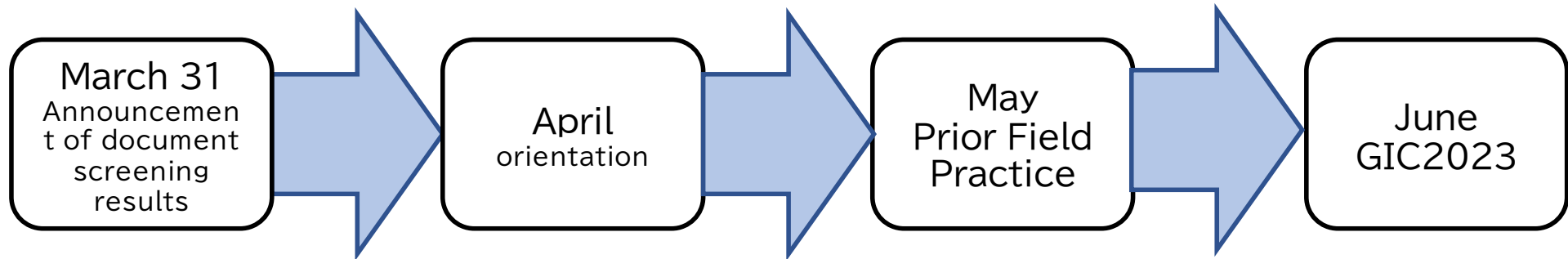


Global Innovation Challenge 2024
Orientation Materials

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1. Schedule



- The date of the contest will be adjusted from the dates listed in the application guidelines.

2. About pre-contest practice/contest performance

	advance practice	contest production
Objective.	In preparation for the contest, understand the environment of the venue and practice in the local environment in order to safely execute the tasks.	Determination of whether the GIC task is accomplished or not The pilot actually demonstrates the task and judges whether the operation can be performed within the time limit without accident.
working item	<ol style="list-style-type: none"> 1. Contest Site Description 2. Description of housing to be used 3. Equipment description of the assignment 4. Demonstration in Pilot 5. virtual review 6. question and answer session 	<ol style="list-style-type: none"> 1. opening ceremony 2. medical checkup 3. Issue Challenge 4. medical checkup 5. Break (15 minutes) 6. question and answer session 7. closing ceremony *2 to 5 are repeated for the number of participating assignments.
Implementation period	The day before the contest *Pre-practice is possible before the event separately (consultation required).	June Schedule as stated in the application guideline
Location	GIC Tsukuba Innovation Center 877 Naka-Sugama, Tsukuba City, Ibaraki Prefecture, 300-4242, Japan	GIC Tsukuba Innovation Center 877 Naka-Sugama, Tsukuba City, Ibaraki Prefecture, 300-4242, Japan
participant	Participating teams: representatives, pilots, assistants, etc. as needed Operation: Jury, medical staff, filming staff, technical staff, etc.	Participating teams: representatives, pilots, assistants, etc. as needed Management: Moderator, judges, doctors, medical staff, filming staff, technical staff, guests, etc.
matters that require attention	<ul style="list-style-type: none"> • The cost of practice the day before the contest will be included in the 10,000USD travel fee provided by the management. • The cost of separate pre-practice will be borne by the participating teams. (Costs on the team side only) 	

3. Pre-practice/preparation for the contest ①.

◆ Preparations common to each assignment

- robotics suite
- Spare robot (if available)
- Robot adjustment tools, etc.

3. Preparations for rehearsal/remote selection ②.

Deficit is prepared by participating teams Black is prepared by management

◆ Task 1: "Toilets."

- Clothing for pilots (pajamas and innerwear)
- (hand) towel

◆ Task 2: "Prepare yourself."

- (hand) towel

◆ Task 3: "Meals."

- Food samples (bread, side dishes, drinks)
- Tableware (plates, cups, spoons, forks, etc.)
- Cooking utensils (toaster, frying pan, pot, ladle, etc.)

◆ Task 4: "Laundry"

- Laundry (pajamas, towels)
- Hangers (ordinary clothes hangers)
- laundry basket
- Detergent containers
- Fabric softener container

3. Preparations for rehearsal/remote selection ③.

Deficit is prepared by participating teams Black is prepared by management

◆ Task 5: "Receiving packages."

- Luggage (cardboard box (32cm x 25cm x 11cm) and 1.5kg worth of water in a PET bottles)

◆ Task 6: "Cleaning."

- cordless vacuum cleaner
- Garbage (items to be placed on the floor)
- Trash can (about 45L in size)
- Garbage bags (about 45L in size)
- 4 kg of trash (4 kg worth of sandbags)

◆ Task 7: "Bathing"

- Clothing for pilots (pajamas and innerwear)
- bath towel
- Hair dryer (hand-held)

4. Notes on the task ①.

◆ Common notes for each assignment - 1

A) Safety

- Do not cause injury to the pilot or others.
- Do not intentionally damage or act in a manner that could damage the interior of the house, furniture, appliances, or equipment.
- Be very careful not to damage the robot.

B) Suspension and Cancellation

- If the pilot becomes ill
 - Please interrupt at the discretion of the representative of the participating team.
 - The physician/medical personnel of the operation may interrupt the program.
- If the pilot recovers from a malfunction
 - The physician and medical staff of the operation may make decisions such as suspending or canceling the program.
- If the selection team determines that the assignment is dangerous, it may be asked to suspend or cancel the assignment.
In such cases, please follow the instructions of the management.

C) How the assignment works

- If a pilot makes a mistake in a movement, it is not considered a failure if he or she can recover on his or her own and safely proceed to the next stage.
- If the event is interrupted due to an event attributable to the organizer, the organizer may ask you to start over.

4. Notes on the task ②.

Notes common to all Tasks.

- At the start of each task demonstration, the robot should be placed in the position designated by the organizer, away from the pilot's body. (except for robot implanted in the body)
- If a pilot needs shoes to wear the robot, they should be taken off at the start of the demonstration since those shoes are considered to be a part of the robot.
- Pilots are required to close all the doors when they finish each task. However, they must close the toilet door in Task 1 and the bathroom door in Task 7 after coming into the room.
- The pilot may use walkers, canes, and other walking aids. However, these aids cannot be used for purposes other than to assist walking. For example, the cane cannot be used to shut a door or the walker to [hang or] carry objects.
- When changing direction or going up and down steps, the pilot may not put his or her entire weight on the walking aid to lift both lower limbs in order to change direction or go up and down steps.
- The pilot may not intentionally put his or her weight on the wall, to lean against it or for balance.

4. Notes on the task ③.

Notes common to all tasks

- Pilots are expected to wear the robot for all tasks. If a demonstration of another task is to be continued, the robot must be removed during the preparation time when the previous task is completed, and the robot must be fitted again in the next task.
- The organiser will provide the main fixtures used in each task.
- Teams may bring other implements (carrying bags, etc.) that they have determined are necessary for carrying out each task, but these must fit into a backpack of 10-liter capacity or less.
- Teams should not change the contents of the implements for every tasks. Teams may fit all the implements necessary to all tasks they participate into a backpack of 10-liter capacity or less. The pilot must keep this backpack close at hand at the start of the demonstration.
- If an unexpected event occurs during the demonstration, such as dropping an object, the pilot will not be allowed to start the demonstration over. However, if the pilot is able to recover on his/her own, for example by picking up the dropped object, the pilot may continue the demonstration. If an object is damaged when dropped and cannot be returned, the task will not be completed.
- The pilots are required to wear a vest equipped with a device which eases the shock of falling during demonstrations. Teams may rent this vest from the organiser, and it needs to be returned in one month approximately since there are only a few.

4. Notes on the task ④.

Notes common to all tasks

- The pilots are required to start Task 2 through 7 in a position that their feet are placed on the floor.
- If any problems occur with the robot during the demonstration, the pilot must fix the problem by himself/herself.
- If a pilot drops goods or knocks down the furniture during the demonstration, he/she must return them to their original position.
- If a pilot damages goods or housing during the demonstration, he/she will be disqualified. (Footprints or stains caused by friction are the exceptions if they come off.)
- If a task requires timing during toileting, washing hands or showering, the assistants may count the seconds.
- Teams may assign a maximum of two assistants in the contest field as a standard. Teams may increase or decrease the number of assistants as they needed.
- Teams are not allowed to move any furniture, goods or fixtures in the contest field before the demonstration starts. However, pilots are allowed to move them during the demonstration.

4. Notes on the task ⑤.

◆ Regarding Issue 1 "Toilets"

- Pilots should wear innerwear.
- Innerwear need not be removed, but pants should be pulled down to the ankles.

◆ Regarding assignment 2 "getting ready".

- When washing the face, pretend to collect water with both hands and make a washing motion with both hands on the face for 3 seconds.

◆ Issue 3: "Meals"

- When seated in the dining chairs, please ensure that your knees are under the table while seated straight and facing the table. Moving the table toward you and moving the table onto your lap is not permitted.
- For safety reasons, the tray cannot be placed around the neck when carrying dishes on it. It can be placed around the neck, but not on a walker.
- Wrapping, covering, or otherwise processing dishes is prohibited.

◆ Regarding Issue 4 "Laundry"

- Laundry bags or baskets can be used, but cannot be placed on a walker.
- The clothesline is fixed at a height of 185 cm from the floor. Hangers are set at 15 cm intervals.
- At the start of the assignment, the laundry pajamas are randomly placed in the basket with the buttons closed.

◆ Issue 5: "Receiving packages"

- Please carry the received baggage by hand.
- Delivery of packages is made by the management staff from a predetermined position outside the front door.

4. Notes on the task ⑥.

◆ Regarding Task 6 "Cleaning"

- When carrying trash bags, please move them by hand.
- It doesn't matter if the trash on the floor is left behind as long as the vacuum cleaner's dust box contains the three colors of trash.

◆ Issue 7: Bathing

- The bathroom floor may be wet during the assignment.
- No water is used in the shower or bathtub. Instead, the robot is pre-submerged in 40°C water for 30 minutes to test its waterproof performance.
- Pilots are required to wear innerwear due to the movement of taking off their clothes.

5. Insurance subscription

Insurance Enrollment

- For during rehearsals (1 day) and demonstrations (1 day), We will provide accident insurance for all members.
- Submit the following information for each member participating in the contest by the specified date and time
 - (1) Name
 - (2) Date of birth
 - (3) Gender
 - (4) Occupation
 - (3) Address
- If you do not submit a list, you will not be allowed to conduct a rehearsal/demonstration
- Teams are required to purchase insurance if they wish to practice in advance other than the day before the demonstration.

6. Cost sharing

Cost sharing

- Entry to this contest is free of charge.
- From the time of entry to the day of the demonstration, the following expenses will be borne by the participating teams.
 - Each team is responsible for the cost of submitting the entry sheet.
 - Travel expenses required to conduct the demonstration will be covered by the organizer up to 10,000 USD. Receipts must be submitted after the contest. No expenses will be covered without receipts, so please be sure to keep your receipts.

7. Travel and stay

- Teams that have been selected to participate are responsible for arranging their own hotels, airline tickets, etc. according to the dates of the event.
- A stay guide will be distributed separately with information on transfers and wheelchair-accessible hotels.
- The organizer will prepare meals for the day before practice and lunch on the day of the demonstration. Other meals should be prepared by each team.

8. Documents to be submitted

Teams that have been selected to participate must submit the following documents as soon as possible.

- Pilot's Medical Check Sheet
- Medical Certificate
- Physician's Opinion
- List of insureds
- List of prohibited meals (food allergies, religion, etc.)