

FS EASTER EVENT HANDBOOK

version 1.0

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#FORMULASTUDENTEASTER

TABLE OF CONTENTS

1. INFORMATION FOR TEAMS.....	4
1.1. Emergency information.....	4
1.1.1. Minor Injury.....	4
1.1.2. Severe Injury.....	4
1.1.3. Hospital.....	4
1.1.4. Emergency Numbers	4
1.1.5. OFFICIALS.....	5
1.1.6. Behaviour in case of regular fires (FUEL, OIL, PAPER, WOOD, ETC.)	5
1.1.7. Behaviour in case of accumulator fires.....	5
1.1.8. Behaviour in case of electric shock	5
1.2. Map of the Event site	7
1.3. Event layout.....	8
1.4. Event Schedule	8
1.5. Camping.....	9
1.5.1. Camping address	9
1.5.2. FS Easter camping Rules	9
1.6. Communication:.....	9
1.7. Static.....	10
1.7.1. Feedback for the events:.....	11
1.8. Organizational aspects	12
1.8.1. Arrival to the event site and team registration.....	12
1.8.2. Driver registration	13
1.8.3. ESO registration.....	13
1.8.4. 1. PARKING AT THE EVENT SITE	13
1.8.5. 2. PARKING AT THE camping	13
1.9. event control	13
1.10. OFFICIALS (SELECTION)	14
1.10.1. BOARD MEMBERS	14
1.11. announcements.....	15
1.12. rules and guidelines	15
1.12.1. running engines or motors.....	15
1.12.2. data loggers	15

1.12.3.	welding	15
1.12.4.	testing.....	15
1.13.	DYNAMIC EVENTS.....	16
1.13.1.	general information	16
1.13.2.	Team and driver briefings	16
1.13.3.	Access to the dynamic area.....	16
1.13.4.	tyres.....	16
1.13.5.	Fuel and oil	16
1.13.6.	engine test area.....	17
1.13.7.	FUEL STATION (CV)	17
1.14.	TECHNICAL & SAFETY INSPECTION.....	17
1.14.1.	General Information.....	17
1.14.2.	scrutineering order.....	18
1.14.3.	testing.....	20
1.15.	DYNAMIC DISCIPLINES.....	21
1.16.	Static Events	21
1.16.1.	Engineering Design Event.....	21
1.16.2.	COST AND MANUFACTURING EVENT.....	21
1.16.3.	BUSINESS PLAN PRESENTATION EVENT	21
2.	Changelog.....	22

1. INFORMATION FOR TEAMS

1.1. EMERGENCY INFORMATION

1.1.1. MINOR INJURY

1.1.1.1. MEDICAL CENTRE

Medical service is available at the Ambulance Team. Get in contact with one of the organisers, if you need.

1.1.2. SEVERE INJURY

1.1.2.1. CONTACT AN OFFICIAL WITH A TWO-WAY RADIO

Most of the officials and security have a two-way radio. Ask them to call the medical team.

1.1.2.2. CALL AN AMBULANCE YOURSELF

Call an ambulance yourself if someone is severely injured and requires urgent help. The emergency number for every landline and mobile phone is 112. (Also see information about emergency calls below.)

1.1.2.3. DURING DYNAMICS

When the dynamic area is open, a special rescue team is on site. To contact them, ask an official with a two-way radio (official, security).

1.1.3. HOSPITAL

1.1.3.1. NEARBY HOSPITAL

Zala County Hospital Szent Rafael
Address: Zalaegerszeg, Zrínyi Miklós u. 1, 8900 Hungary.
Phone: +36 92 507 509
Homepage: www.zmkorhaz.hu

1.1.4. EMERGENCY NUMBERS

If an emergency occurs outside the times of the competition, call 112.

This number works with all landlines, as well as mobile phones or coin-operated telephones as international GSM-standard.

It is always free of charge, but should be used only in case of emergencies.

1.1.5. OFFICIALS

In case of an emergency, please call Csilla, no matter what time it is.

Event Manager: Csilla Ruszthi +36 30 2600512 0-24h

Regular emergency number: 112 0-24h

1.1.6. BEHAVIOUR IN CASE OF REGULAR FIRES (FUEL, OIL, PAPER, WOOD, ETC.)

- Call for help (firefighters/ambulance) by either finding an official with a radio or calling 112.
- Assist injured people to leave the area, provide first aid if you can.
- Try to extinguish the fire, if this is possible without risking your own safety. If an electrical device is on fire, first cut the power to it.
- Leave the area and instruct others to do so as well.
- Wait for the firefighters/ambulance to arrive.
- Handling of the situation by the firefighters, medical treatment provided by ambulance.
- Fire extinguisher will be available at the site, if needed, do not hesitate to use them!

1.1.7. BEHAVIOUR IN CASE OF ACCUMULATOR FIRES

- Immediately leave the area in a radius of 5 meters and instruct others to do so as well. Assist injured people to leave the area. An overheated accumulator is extremely dangerous, so do not put yourself in danger by trying to put it out.
- Provide first aid to the injured, if you can. See below section on what to do in case of electric shock – in any case, do NOT give the victim water or food.
- Call for help by finding an official with a radio or by calling 112 yourself. Wait for the firefighters and ambulance to arrive, who will handle the situation.
- Stay out of the way of fumes coming from the accumulator or the car; mind the wind direction.

1.1.8. BEHAVIOUR IN CASE OF ELECTRIC SHOCK

- Call for medical help by finding an official with a radio or by calling 112 yourself, preferably in parallel to the steps below.
- Push one of the emergency shutdown buttons and wait until the TSAL is switched off.

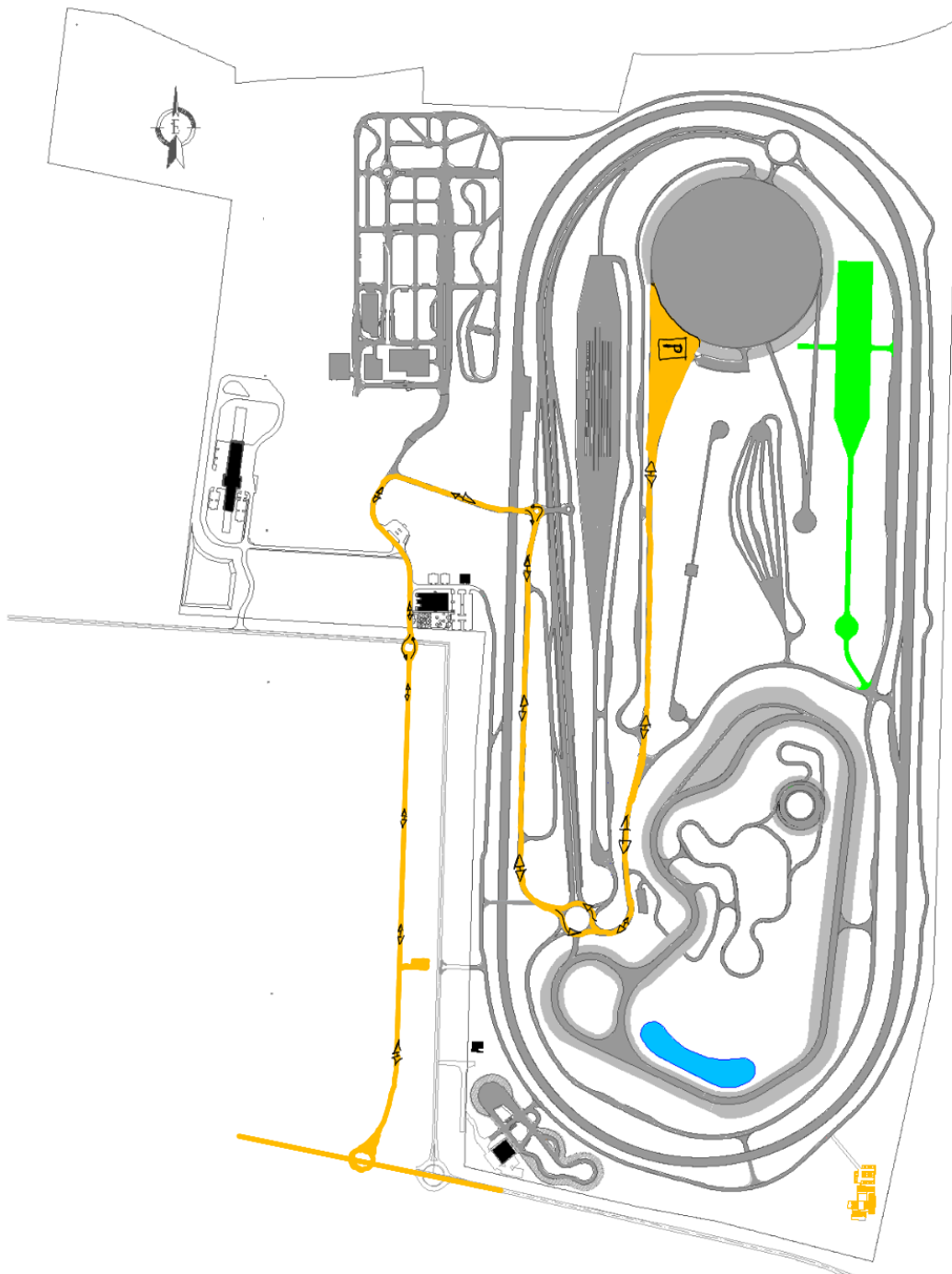
Note that this can take up to 5 seconds, wait patiently.

- Try to speak with the victim and ask him/her about his/her health.
 - Insulate yourself if you must move a victim away from a live contact – wear dry gloves or cover your hands with multiple layers of cloth and cover potential contact paths with the car with the HV isolation blanket.
Watch your footing to make sure that you do not slip or fall when trying to move the victim.
 - Do not move the victim if there is a possibility of neck or spinal injuries, unless he/she is in immediate danger.
 - Do NOT give water or food to the victim.
 - Give artificial respiration if the victim is not breathing.
 - Give CPR if the victim's heart has stopped (only if you are trained in CPR) or use an Automated External Defibrillator.
 - Cover burns with a sterile dressing. On the surface, electrical burns may not look serious, but the burn can be severe deeper in the tissue.
 - Keep the victim comfortable, warm and at rest, and monitor his/her breathing until the ambulance arrives.
- The victim might undergo ventricular fibrillation several minutes after experiencing a shock.

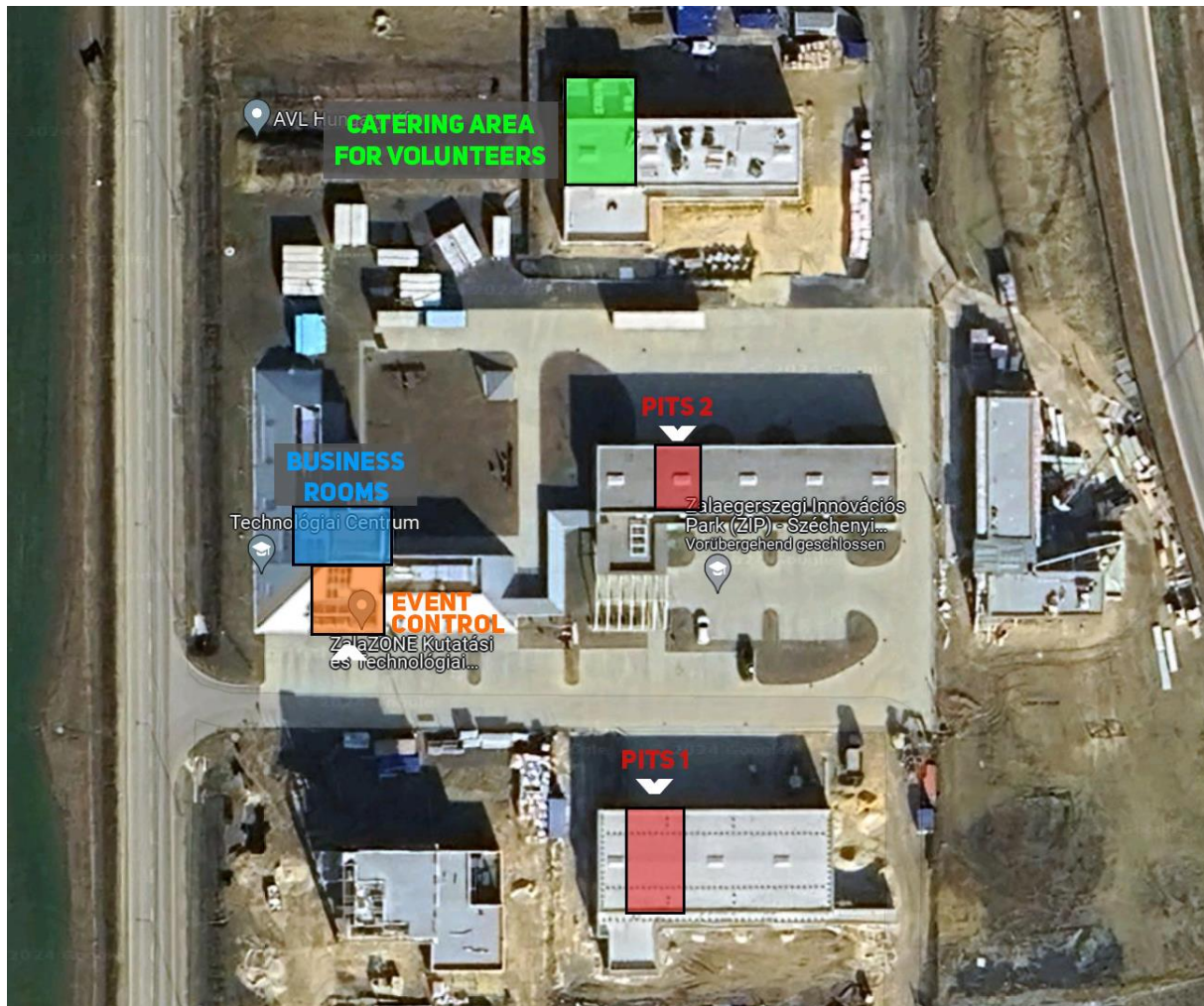
1.2. MAP OF THE EVENT SITE

Smoking is strictly prohibited in the dynamic area, in all buildings, and in the pit area. Smoking is permitted only in the dedicated area of the event site and outside the event control.

In higher resolution [on the website](#)



1.3. EVENT LAYOUT



1.4. EVENT SCHEDULE

https://fseast.eu/wp-content/uploads/2024/06/fseaster_schedule-2024_1.0.pdf

1.5. CAMPING

Camping is available for the teams.

1.5.1. CAMPING ADDRESS

Göcsej Völgye Kemping
Kustánszeg, Dózsa Gy. utca 1, 8919

When you arrive on Thursday, go to the Camping. If you arrive on another day, go to the Event Site first.

Please let Csilla Ruzshti know your estimated time of arrival.

+36 30 2600 512

csilla.ruzshti@fseast.eu

1.5.2. FS EASTER CAMPING RULES

Those teams who booked their accommodation and intend to stay at the FS Easter Camping have to accept the following guidelines and rules. We created this list of rules to ensure all the necessary safety and comfort elements for the team members.

In any urgent cases you can call the emergency numbers.

1.5.2.1. COOKING, FIRES AND SMOKING

Using open fire (e.g. charcoal, gas stove, firewood) for cooking is only allowed in the designated areas.

NOTE: Alcoholic drinks are forbidden at the event site - so just drink as much as you can "sleep out", to be perfectly fit for the next day.

1.6. COMMUNICATION:

Please download the Discord application to your mobile phone and join the server. We would like to ask every team to allocate at least one team member to the channel to be with all of the info up - to date.

If you joined the Discord server go to the role-selection channel first and choose your role by clicking on the "T" emoji.

Please rename your server profile name as the following YOUR NAME (TEAM NAME)!

Joining link: <https://discord.gg/w2BmY7Ju>

1.7. STATIC

Static Schedule - Saturday			
Team	EDE	CME	BPPE
	Time	Time	Time
BME Formula Racing Team	9:00 – 10:10	11:15 – 12:00	
BME Motorsport	11:20 – 12:30	9:45 – 10:30	14:00 – 15:00
Electric Racing Miskolc	14:00 – 15:10	16:15 – 17:00	15:00 – 16:00
Joanneum Racing Graz	10:10 – 11:20	14:00 – 14:45	
PRz Racing	14:00 – 15:10	15:30 – 16:15	10:00 – 11:00
TU Graz Racing	10:10 – 11:20	9:00 – 9:45	
TU Wien Racing	9:00 – 10:10	10:30 – 11:15	11:15 – 12:15
UNI Maribor GPE	11:20 – 12:30	14:45 – 15:30	9:00 – 10:00

Static Schedule - Sunday	
Team	BPPE
	Time
BME Formula Racing Team	11:15 – 12:15
BME Motorsport	
Electric Racing Miskolc	
Joanneum Racing Graz	9:00 – 10:00
PRz Racing	
TU Graz Racing	10:00 – 11:00
TU Wien Racing	
UNI Maribor GPE	

Please bring a printed version of all your cost documentation to the event.

1.7.1. FEEDBACK FOR THE EVENTS:

- Business Plan Presentation Event: during your 1 hour slot, you will receive detailed feedback and will have the opportunity to ask specific questions from the judges.
- Engineering Design Event: on Sunday, for details see the schedule.
- Cost and Manufacturing Event: on Sunday, for details see the schedule.

1.8. ORGANIZATIONAL ASPECTS

1.8.1. ARRIVAL TO THE EVENT SITE AND TEAM REGISTRATION

Schedule: Friday, 21st June (from 9:00)

Location: ZalaZONE Kutatási és Technológiai Központ

Registration: Event Control

1.8.1.1. FS EASTER ENTRANCE

Coordinates: 46.8828, 16.8364

1.8.1.2. REGISTRATION

Our colleagues record your arrival, and give you any possible info about the next steps - registration, parking, unpacking the trucks, etc. And you will get your wristbands!

ONLY the Team Captain is allowed to register his/her team. He/she can be accompanied by only ONE team member!

By signing the Standard Terms the teams state that they accept the rules of the event, that only team members will work on the car, also understanding and following the safety guidelines of the event. After that Team Captains are handed over the starter packages, dynamic pass wristbands and all passes for the registered team members.

The event guide will be provided in online form only.

If the registration procedure is over then the team is ready to enter the premises of the event.

1.8.1.3. SAFETY REGULATIONS REGARDING ENTRANCE

Please pay high attention and **DO NOT block any emergency exits of the event.** Please follow our officials' instructions at all times. **DO NOT park your truck to the gates until the officials order you to do so.**

1.8.2. DRIVER REGISTRATION

Schedule: Friday, 21st June (from 9:00)

Location: Event Control

Each team could register up to 6 drivers. The drivers have to be registered in the Event Control where they have to show their valid driver's license. Each registered driver will get a numbered wristband.

1.8.3. ESO REGISTRATION

Schedule: Friday, 21st June (from 9:00)

Location: Event Control

Electric teams also have to register dedicated members with thorough knowledge about the vehicle's electrical systems: at least one Electrical Safety Officer person (ESO), and at most 4 more team members who can enter the charging area (altogether maximum 5 people). The ESOs also have to sign the registration document.

1.8.4. 1. PARKING AT THE EVENT SITE

You are able to leave your passenger cars, vans and trucks in the designated 'Car Park' area.

The pits can be unpacked DURING and AFTER endurance. Teams who finish the competition earlier can ask our colleagues for help for early unpacking.

NOTE: The exit routes have to be unobstructed all the time, that is why we need to rule the venue's traffic. Please follow our guides in any case - unloading your vehicles, leaving the venue, moving by car/truck at the venue.

1.8.5. 2. PARKING AT THE CAMPING

The camping has limited capacity of parking slots, so please park outside next to the road.

1.9. EVENT CONTROL

Schedule: from 21st June 08:30 – 23rd June 19:00

Location: Event Area, Pyramid building

Event Control is the central contact point for teams and all issues concerning the event.

Event Control provides:

- Information point for all competitors (concerning schedule, general questions etc.)
- Contact interface to the officials
- Registration of the drivers
- Registration of ESOs and charging area staff
- Team briefing wristband handout
- Data logger handout point
- Lost and found
- Feedback

1.10. OFFICIALS (SELECTION)

At the venue, we will answer your questions directly. To contact us before and after the event, please write us an e-mail to hello@fseast.eu. The fastest and easiest way to communicate with us is on-site.

1.10.1. BOARD MEMBERS

Csilla Ruzshti

Board | Event Manager

János Tóth

Board | Competition Director

Lilla Lugosi

Board | Dynamic Area Leader

Máté Koba

Board | Scrutineer Leader

Csana Al-Hafez

Board | Static Events Leader

Janos Kun

Board | PR Leader

To contact them, poke them on discord or visit the Event Control.

1.11. ANNOUNCEMENTS

The event will proceed according to the official time schedule as far as possible. Please pay attention to the Telegram channel for changes in the schedule.

1.12. RULES AND GUIDELINES

1.12.1. RUNNING ENGINES OR MOTORS

You are allowed to run engines (IC) or put the car into ready-to-drive mode (EV) ONLY in the designated engine test area, after passing scrutineering.

1.12.2. DATA LOGGERS

The data loggers will be handed out at the Event control during opening hours, **in charge for a 250 € deposit.**

You have to install the data logger in the car prior to EV2 scrutineering, according to the data logger instructions available on the [FS East website](#). You can find any necessary information in the [Data Logger Specification](#). You can ask our E-scrutineers for help with the installation.

1.12.3. WELDING

Welding is only allowed in the designated area. We can't provide an approved welder.

1.12.4. TESTING

Driving practice is only allowed within the designated test area and at the designated times.

There will be 1 test track provided for the CV and EV teams, will be open during the designated time frames described in the schedule.

1.13. DYNAMIC EVENTS

1.13.1. GENERAL INFORMATION

The dynamics at FS Easter are compliant with the FSG Rules 2024 Part D and additional FS Easter Competition Handbook. The following pages describe the additional procedures and key aspects. Other information will be provided at the morning briefings on site.

1.13.2. TEAM AND DRIVER BRIEFINGS

There are team briefings on Saturday and Sunday morning of the competition. The briefing contains general event information and detailed information about the dynamic events of the day.

Missing the briefing (or late arrival) means no entrance to the dynamic events.

1.13.3. ACCESS TO THE DYNAMIC AREA

Every team will receive four rubber wristbands labeled “Dynamic pass”. With these wristbands at most four team members may enter the dynamic area or the engine test area, including the driver and/or the ESO. Drivers may take them off for driving, but must put them back on afterwards. Cheating on handing out wristbands from the dynamic area is strictly forbidden and will be penalised!

1.13.4. TYRES

Please **arrive with pre-fitted tires** as we can provide assistance to change tires at the competition in limited time: **Day 2 - Saturday 09:00-11:00**
Outside the specified time you can find tire services in the city:

- [Karmacsi Gumiszervíz](#)
- [Schlosser Gumiszervíz](#)

1.13.5. FUEL AND OIL

Open fuel containers are not permitted at the event. All fuel containers must be DOT approved. Waste oil is to be taken to the fuel station for disposal. Refuelling is only allowed at the fuel station, but not in the pits.

1.13.6. ENGINE TEST AREA

Location: Dynamic Platform

This is a designated area for test running the engines or motors. Entering this area is only allowed with the Dynamic wristbands. Your car must have passed scrutineering and you must follow these rules:

- The car must be in one of the designated engine test area slots.
- The car must be adequately supported, with the wheels at least 10.2 cm (4") off the ground.
- While the engine is on, a driver must be seated in the cockpit, wearing a full safety suit and with the belts fastened.
- There must be a fire extinguisher immediately available.
- The gearbox must be in neutral or the driven wheels must be demounted.

1.13.7. FUEL STATION (CV)

Location: Dynamic Platform

Draining fuel and lubricants from the car is only permitted at the fuel station.

1.14. TECHNICAL & SAFETY INSPECTION

Scrutineering and Charging Area

1.14.1. GENERAL INFORMATION

The charging and the scrutineering area for Accumulators are located in the same place in the designated pit. When you are in the Pits be very careful, do not disturb others and take extra care to keep your tools and things in proper order. If someone's behavior is unacceptable, he or she can be banned from the area, and the team also may be penalized.

In case of fire, if someone presses the emergency horn, or if the Officials ask for it, leave the area immediately on the shortest way through the corridors.

Scrutineering will take place in the Pits. During the Scrutineering, teams may make small repairs on the car, but the time spent in one attempt can't exceed 15 minutes total. If no other team is waiting for scrutineering, then the team can continue the work until a new team arrives.

The times in the event schedule are strict. We do not start scrutineering after the area closes, but the ongoing inspections will be finished.
It is the team's responsibility to make sure the acceptance of each test is properly documented.

1.14.2. SCRUTINEERING ORDER

The Scrutineering order is predetermined for the Static scrutineering events (Mechanical, Egress & Safety Inspection, EV1, Accumulator,). Scrutineering order for the Dynamic Scrutineering events and Re-scrutineering (if team not able to pass every point during their slot) will be first come first serve. Driver egress and safety will be checked during Mech I scrutineering.

On Day 1 scrutineering schedule is the following:

1.14.2.1. MECHANICAL SCRUTINEERING + EGRESS AND SAFETY INSPECTION:

Start Time	End Time	Mech I+Egress	Mech II	Mech III	Mech IV
10:00	10:35	BME Formula Racing Team TU Wien Racing	PRz Racing		
10:45	11:20		Grand Prix Engineering Uni Maribor	BME Formula Racing Team TU Wien Racing	
11:30	12:05		BME Motorsport		BME Formula Racing Team TU Wien Racing
13:00	13:35	TU Graz Racing Team Joanneum Racing Graz	BME Formula Racing Team		

13:45	14:20			TU Graz Racing Team Joanneum Racing Graz	
14:30	15:05		TU Wien Racing		TU Graz Racing Team Joanneum Racing Graz
15:15	15:50	PRz Racing Grand Prix Engineering Uni Maribor	Joanneum Racing Graz		
16:00	16:35		TU Graz Racing Team	PRz Racing Grand Prix Engineering Uni Maribor	
16:45	17:20	BME Motorsport			PRz Racing Grand Prix Engineering Uni Maribor
17:30	18:15			BME Motorsport	
18:25	18:50				BME Motorsport

1.14.2.2. ACCUMULATOR SCRUTINEERING:

Start Time	End Time	Scrutineer Team 1	Scrutineer Team 2
10:00	11:30	Grand Prix Engineering Uni Maribor	BME Formula Racing Team
11:40	13:10	TU Wien Racing	TU Graz Racing Team
14:00	15:30	PRz Racing	Joanneum Racing Graz

1.14.2.3. EV1 SCRUTINEERING:

Start Time	End Time	Scrutineer Team 1
10:00	11:00	TU Graz Racing Team
11:10	12:10	PRz Racing
13:00	14:00	Grand Prix Engineering Uni Maribor
14:10	15:10	BME Formula Racing Team
15:20	16:20	TU Wien Racing
16:30	17:30	Joanneum Racing Graz

1.14.2.4. EV2 SCRUTINEERING:

EV2 scrutineering order will be available for the teams on Day 1 based on the results of Accu and EV1 scrutineering.

If the team decides to fix any found issue during the inspection, they have a total 15 minutes maintenance time in the scrutineering pit, which is measured cumulatively. After 15 minutes the scrutineers can decide to stop the scrutineering process if there is another team ready for scrutineering in this case the team need to apply for re-scrutineering. If the slot time has expired before passing every step the team also need to apply for re-scrutineering where the scrutineering process will be continued. Re-scrutineering will start after every team has completed their first slot.

1.14.3. TESTING

Location: see the map of the venue (Dynamic platform)

Driving practice is only allowed within the designated test area and at the designated times.

1.15. DYNAMIC DISCIPLINES

All of the dynamic disciplines are carried out on the Dynamic Platform.

1.16. STATIC EVENTS

1.16.1. ENGINEERING DESIGN EVENT

Location: Team's pits

During the competition, a discussion with the judges will take place, next to the team's vehicle.

The exact time of your team's design judging can be found in the Static Events Schedule.

1.16.2. COST AND MANUFACTURING EVENT

Location: Team's pits

During the competition, a discussion with the judges will take place, next to the team's vehicle.

The exact time of your team's cost judging can be found in the Static Events Schedule.

1.16.3. BUSINESS PLAN PRESENTATION EVENT

Location: Business Room (see map)

The exact time of your team's business judging can be found in the Static Events Schedule.

2. CHANGELOG

Version	Date	Modification	Page
1.0.0	11st June, 2024	Original document	-

Részletek vagy az egész dokumentum felhasználása csakis a Járműmérnökök Egyesületének írásos engedélyével lehetséges.

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