

EVENT HANDBOOK



2022

EMERGENCY



INJURIES



Minor Injury

Accompany injured person to the medics or ask Officials (wearing grey t-shirts), they will handle the situation.



Severe Injury

Call 112 and contact Officials when urgent help is required.

Medical Service on Site

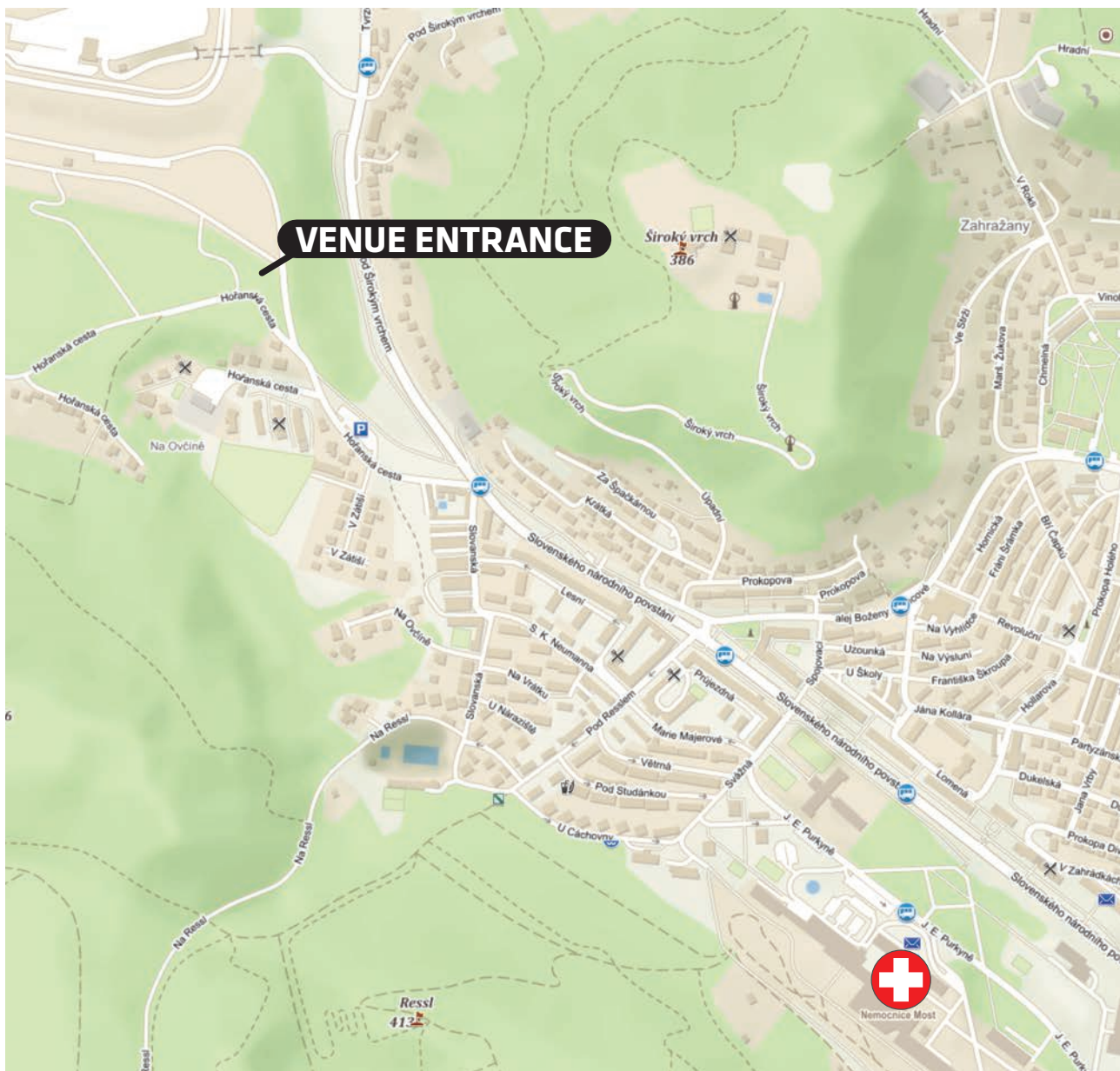
Day	Operating hours
Wednesday 20.7.	8:30am - 8pm
Thursday 21.7.	8:30am - 8pm
Friday 22.7.	8:30am - 8pm
Saturday 23.7.	8:30am - 11pm

HOSPITAL

Nearby Hospital with Emergency (24h)

Hospital Most
E. Purkyně 270
434 64 Most

Please report all injury situations to the Officials at Info Point.



FIRE

Regular Fire

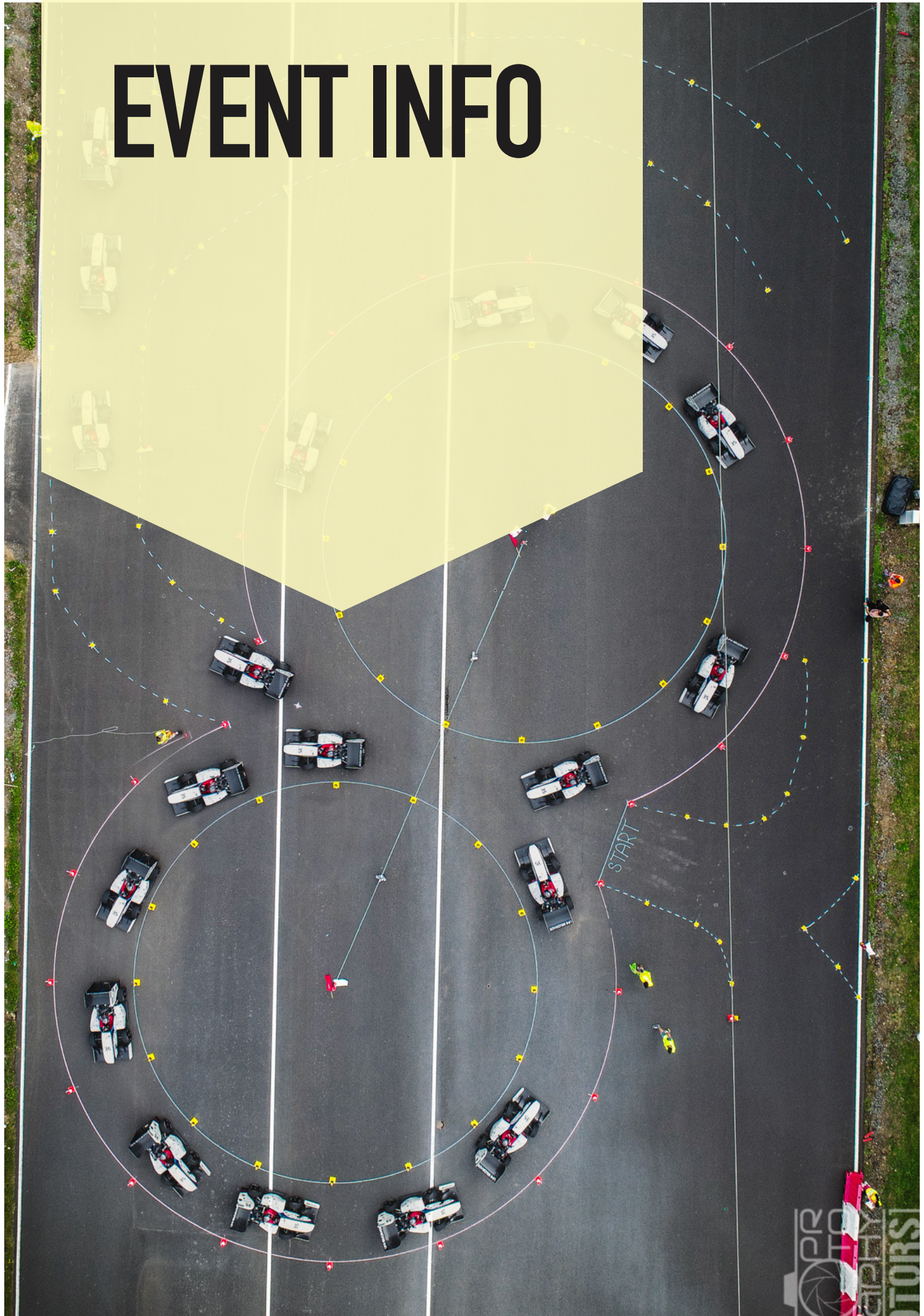
- Call for help before attempting to extinguish a serious fire.
- Check for your own safety before starting to extinguish a fire.
- Assess the fire.
- Check the type of extinguisher.
 1. Class A: All solid materials, usually organic origin nature (contains compounds of carbon) and generally produce glowing embers - i.e. wood, textiles, curtains furniture and plastics.
 2. Class B: All flammable liquids and solids.
 3. Class C: Fires involve Natural Mains Gas, Liquid Petroleum Gases (LPG) such as Butane & Propane etc.
 4. Class D: Fires involving metals or powdered metals etc (where water is generally ineffective and / or dangerous).
- Ready the fire extinguisher.
- Aim for the base of the fire.
- Extinguish the fire.

Fire of Electric Devices

Electrical fires are not considered to constitute a fire class on their own, as electricity is a source of ignition that will feed the fire until removed.

- Call for help of firefighters by finding Official with radio.
- Assist persons in danger of fire to leave if it is safe for you.
- Try to extinguish the fire with suitable extinguishers if it is possible and safe.
- Leave the area.
- Wait for the firefighters/ambulance to arrive. If you are in the hidden area, assist them to find you (i.e. send somebody to the entrance gate).

EVENT INFO



REGISTRATION

Registration Procedure

- Team Captain accompanied with drivers and ESO/ASR (in case of EV/DV team) starts the process by entering the Registration Desk.
- Approval of the Team Member List allows to register drivers and ESO/ASR.
 1. Drivers must show their valid driver's license.
 2. ESO/ASR must show a valid certificate.
- Team captain must fill up to two cell phone contacts, which will be used as official communication channel in case of unexpected changes or important notices.
- Team must pay the Pit Deposit 20€, which will be returned after pit check-out on Saturday (6pm-8pm). Please see section Paddock Rules for details.
- Team must pay the Dynamics Pass Deposit 20 € and EV/DV teams ESO/ASR Badge Deposit 20€, which will be refundable on Saturday (2pm-8pm) if all 4 Dynamic Passes and ESO/ASR Badges are returned at the Info Point.
- EV/DV teams can directly pick up the Energy Meter. It is protected by 200€ deposit. The energy meter must be returned before Saturday 23.7. 7pm at the Info Point.

Late Arrivals

Later arrival of the team member is allowed, but she/he must be registered by the Team Captain during operating hours. Team Captain is responsible then to pass the badge and wristband to the involved person. The same applies for camp registration.

Team On-site Registration

Day	Operating hours
Monday 18.7.	10am - 12am (DV only), 1pm - 8pm
Tuesday 19.7.	8am - 12am, 1pm - 8pm

Camp Registration

Teams willing to stay at the camp site pay for their team members at the Camp Desk or in advance. The price is 67€ (incl. 15% tax) per person for the whole event. Please note that payment on site can be made only in cash and the nearest ATM or exchange office is in the city Most (not in the venue). Payments on the basis of pro-forma invoice are preferred - please ask one before event on registration@fsczech.cz, no later than one week prior event. Camp site can be taken by teams starting on Monday 18.7. 10am, but payment must be done on regular working times.

Camp Check-in Availability

Day	Operating hours	Location
Monday 17.7.	10am - 12am (DV), 1pm - 8pm (EV/CV)	Registration Desk
Tuesday 18.7.	8am - 12am	Registration Desk

In case of need, you can ask us for an alternative check-in time.

Latest Check-out

Sunday 23.7. 12am.

Parking

- Cars are allowed to park in front of Paddock for the time of unloading and loading only. Car must be designated with the Parking Permission card.
- Long-time parking is allowed on the designated locations only.
- Long-time parking is allowed in the camp site for passenger cars and small vans.
- Parking of the trucks must be agreed on at the Info Point/Registration Desk.

Truck Unloading/Loading

Forklift will be available on-site for truck crate unloading (from Monday 18.7. 3pm) and loading (until Sunday 24.7. 12am). Its load capacity is 1,5 tons. Please note that full load capacity is limited by the length of forks and decrease with position of the crate's COG distance from the tip of forks. Approximate load capacity 1m in front of the fork tip is 1 ton. Please plan distribution of the weight according to that. Your crate should also be robust to withstand manipulation.

If you wish to use the service of our forklift, please arrange a term [with us](#) to avoid long waiting time.

First access

Only one car per team (having Team Captain aboard) is allowed to park in the vicinity of the entrance for the purposes of on-site registration. Other team cars must wait until Team Captain finishes registration on the parking and will be allowed to enter venue with wristbands only (after successful registration).



SCHEDULE

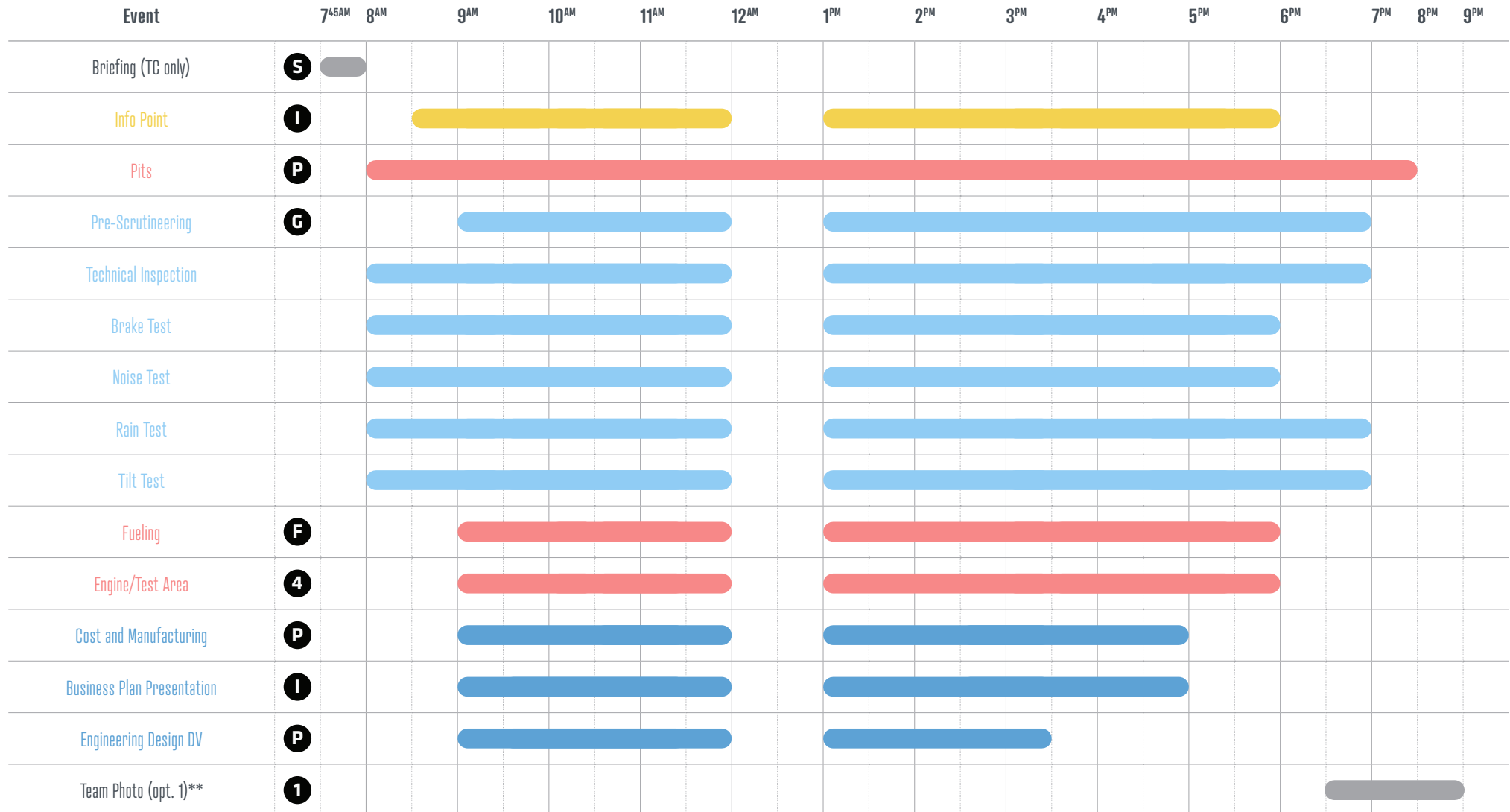
Monday 18.7.

[illegible]

Tuesday 19.7.

Event		8 ^{AM}	9 ^{AM}	10 ^{AM}	11 ^{AM}	12 ^{AM}	1 ^{PM}	2 ^{PM}	3 ^{PM}	4 ^{PM}	5 ^{PM}	6 ^{PM}	7 ^{PM}	8 ^{PM}
Registration CV, EV	R													
Info Point	I													
Camp Check-in	R													
Pits	P													
Pre-Scrutineering														
Technical Inspection	G													
Brake Test														
Noise Test														
Rain Test														
Tilt Test														
Fueling														

Wednesday 20.7.



* Will be specified and described with Static Events schedule

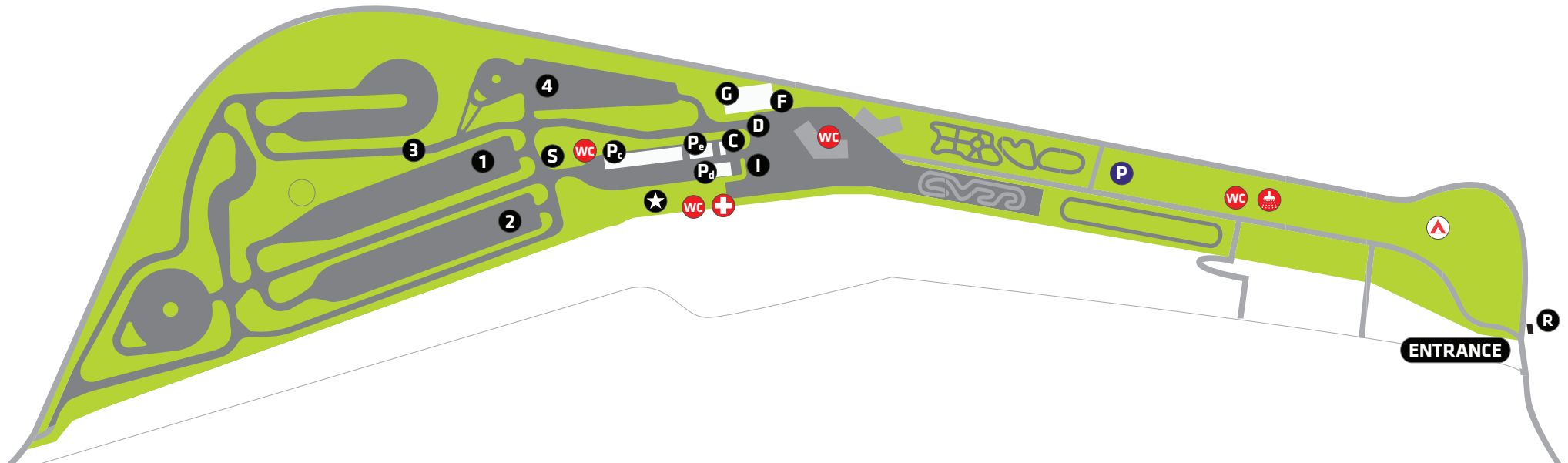
**Will be decided according to the actual weather situation.



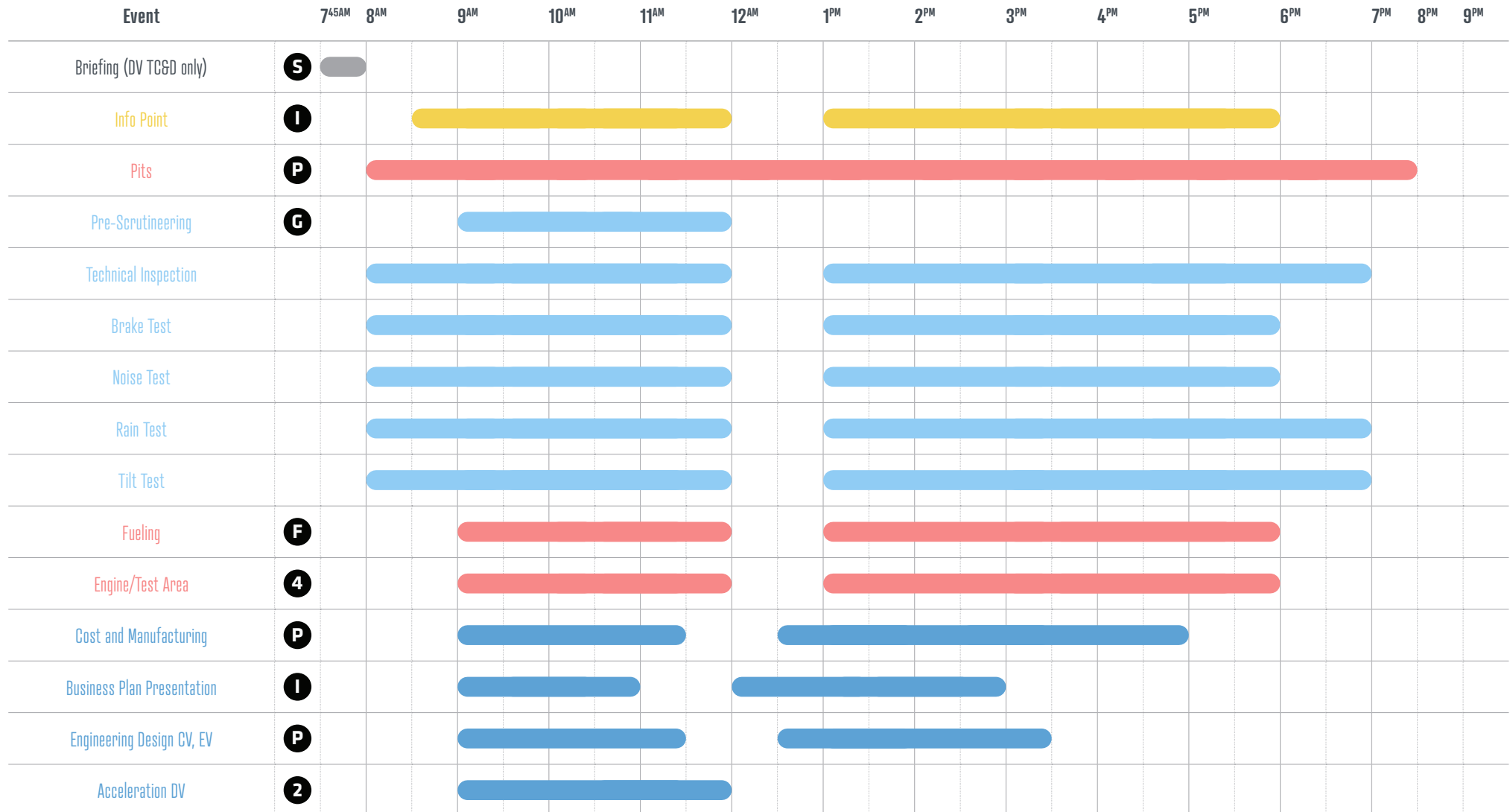
- P_c** PITS FSC
- P_d** PITS FSD
- P_e** PITS FSE
- S** STAGE

- G** GALLERY
- I** INFO POINT
- F** FUEL STATION
- C** CHARGING AREA

- P** PARKING VISITORS
- CAMPING FOR TEAMS
- SHOWERS
- TOILETS
- FIRST AID

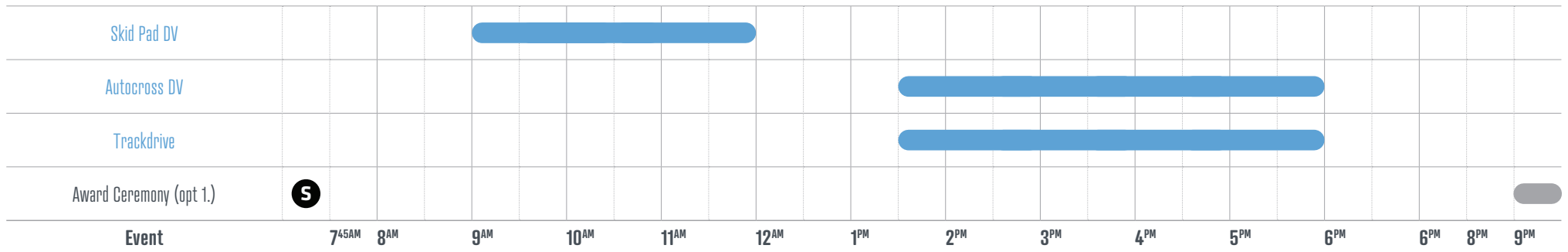


Thursday 21.7.



* Will be specified and described with Static Events schedule

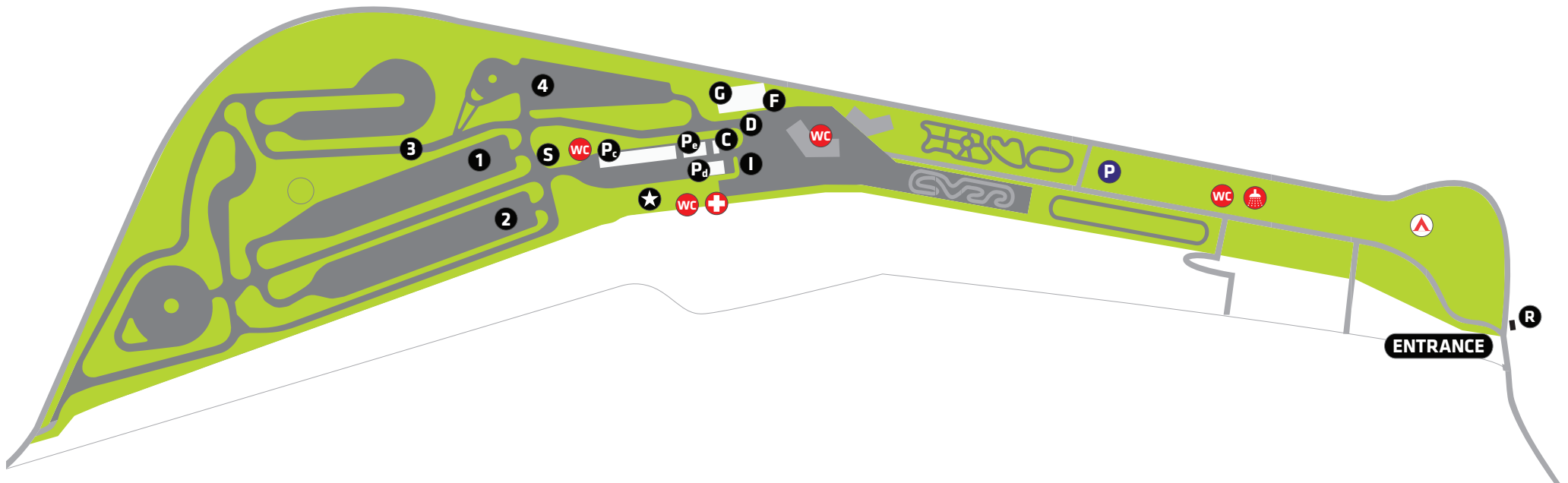
**Will be decided according to the actual weather situation.



- P_c** PITS FSC
- P_d** PITS FSD
- P_e** PITS FSE
- S** STAGE

- G** GALLERY
- I** INFO POINT
- F** FUEL STATION
- C** CHARGING AREA

- P** PARKING VISITORS
- ▲** CAMPING FOR TEAMS
- 🚿** SHOWERS
- WC** TOILETS
- +** FIRST AID

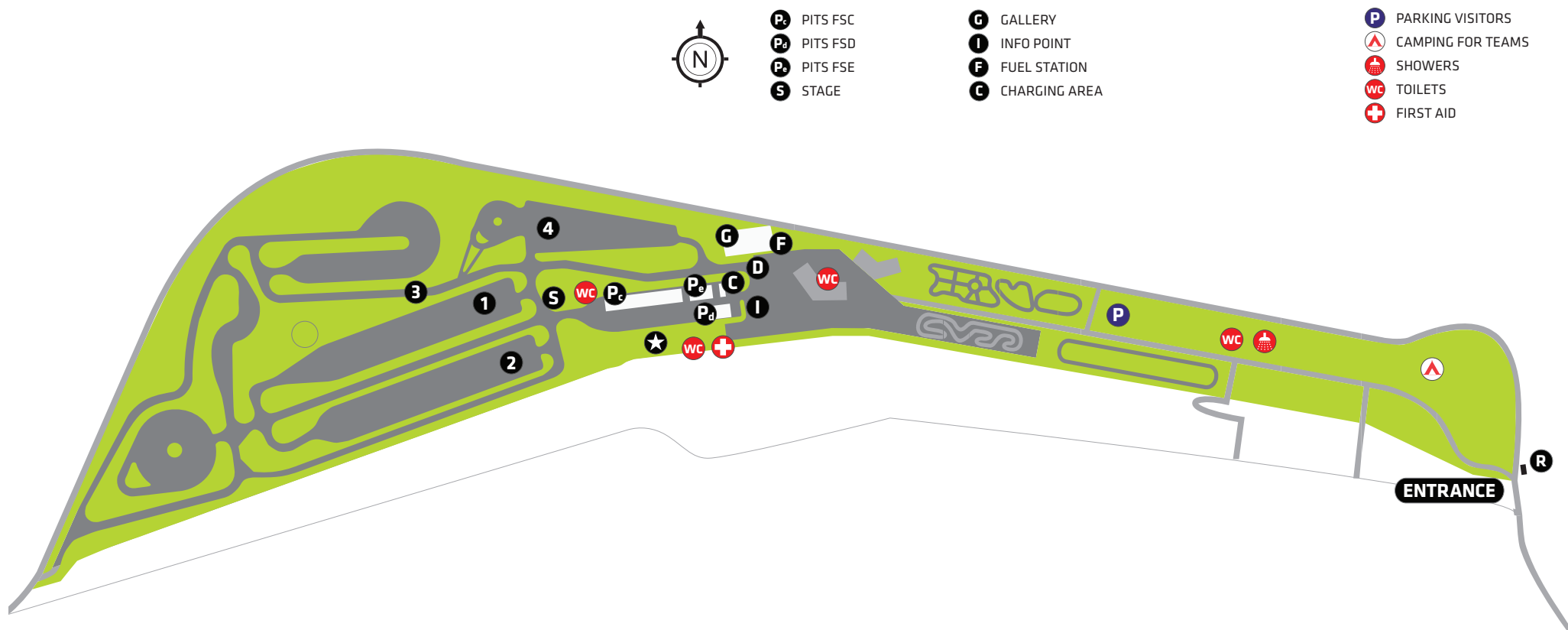


Friday 22.7.

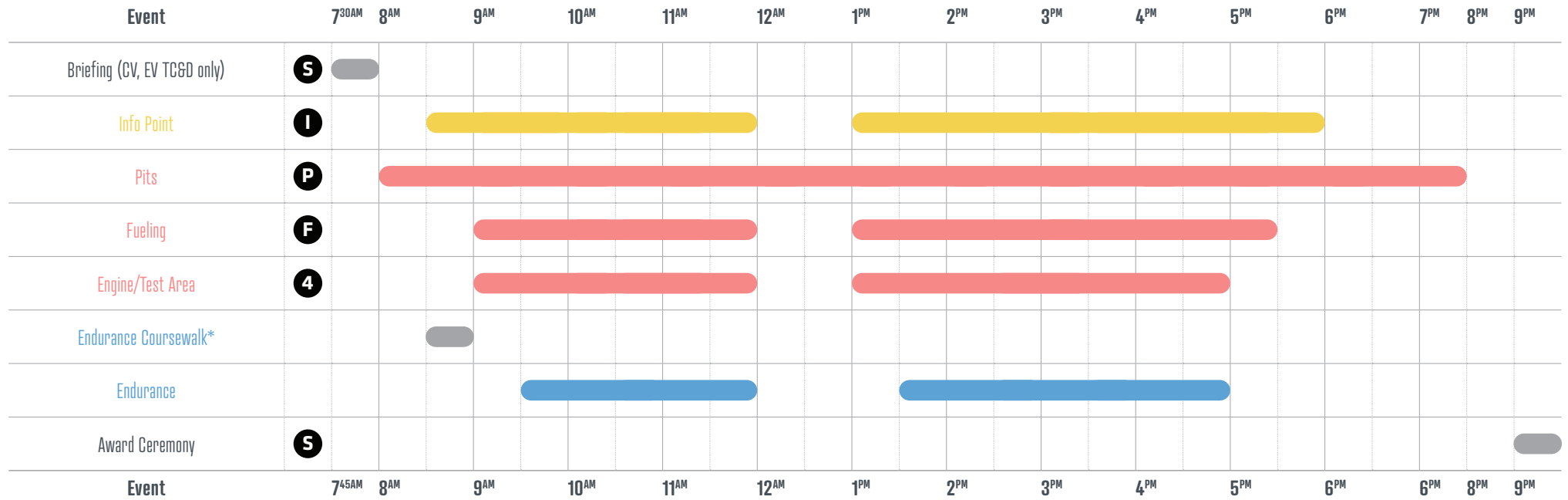
Event		7 ⁴⁵ AM	8 ^{AM}	9 ^{AM}	10 ^{AM}	11 ^{AM}	12 ^{AM}	1 ^{PM}	2 ^{PM}	3 ^{PM}	4 ^{PM}	5 ^{PM}	6 ^{PM}	7 ^{PM}	8 ^{PM}	9 ^{PM}
Briefing (CV, EV TC&D only)	S															
Info Point	I															
Pits	P															
Brake Test																
Noise Test																
Rain Test																
Tilt Test																
Acceleration CV, EV	1															
Skid Pad CV, EV	2															
Autocross Coursewalk*	3															
Autocross CV, EV	3															
Team Photo (opt 2.)**																

* Entrance open 1^{PM} - 1:15^{PM} only.

** Will be decided according to the current weather situation.



Saturday 23.7.



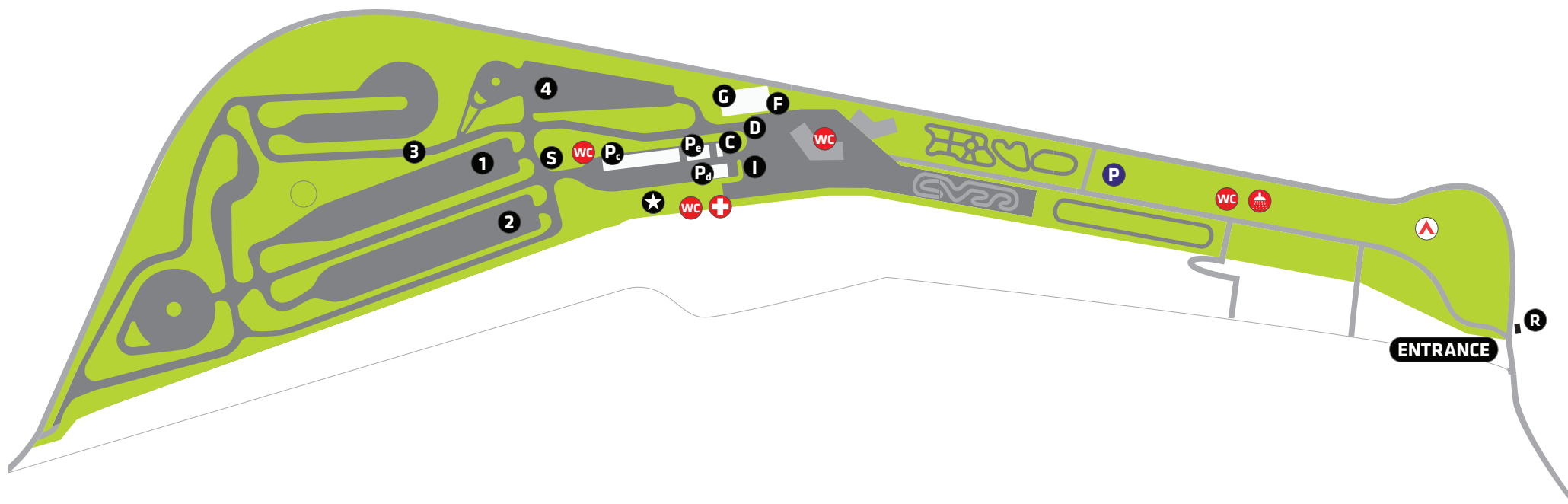
* Entrance open 8:30^{am} - 8:45^{am} only.



- P_c** PITS FSC
- P_d** PITS FSD
- P_e** PITS FSE
- S** STAGE

- G** GALLERY
- I** INFO POINT
- F** FUEL STATION
- C** CHARGING AREA

- P** PARKING VISITORS
- ▲** CAMPING FOR TEAMS
- 🚿** SHOWERS
- WC** TOILETS
- +** FIRST AID



RULES



CAMP SITE

Safety

- Do not leave valuables in your tent, lock them in the car, if needed.
- Venue/Organizer are not responsible for any stuff lost or stolen and for damage to property and health of campers, despite the fact that camping will be protected. It is recommended not to bring valuable items or lock them in the team's car for safety.
- No animals, weapons or drugs allowed. It's strictly prohibited to bring any things that can be classified as dangerous.
- No open flames.
- No pit-bike running. All vehicles must be operated on designated roads with the speed limit 5kph.
- Any operation with the fences is prohibited.
- Leaving or entering the Campsite is possible only with the proper (official red) wristband.
- There will be on-site security at all times.

Consideration

Campers are expected to behave in a manner that is courteous to other campers. The law of Czech Republic implies time between 10pm and 6am as a night time with noise regulation 40dB.

Electricity

Camp is equipped with power supply 230V. Bring the extension wire (EU socket) and think when using it, especially in bad weather conditions.

Water

Tap water is safe to drink.

Sanitary facilities

Campground is equipped with water sinks, electricity, toilets and showers. Please save water and respect your colleagues.

Refreshment

Restaurant is located at the race track, see map.

Compliance

While receiving the wristband camper agrees with the established rules of the Campsite. Organizers have the right at its discretion to apply the following sanctions against violators of the rules:

- Warning.
- Expulsion from the campsite without the refund.

Guests

Guests approved by the Team Captain or organizers are allowed in the camp site only.

PADDOCK

Paddock is open 8am - 8pm.

If any of the below mentioned instructions is not obeyed, it may result in deduction of points, team member role disownment or disqualification.

All participants are advised to follow the general workplace safety rules

- Never distract the attention of another person, as you might cause him or her to be injured. If necessary to get the attention of another person, wait until it can be done safely.
- Where required, you must wear protective equipment, such as goggles, safety glasses, masks, gloves, hair nets, etc. appropriate to the task.
- Keep your work area clean.
- Running and horseplay are strictly forbidden.
- Do not block access to fire extinguishers.
- Do not operate machines or equipment until you have been properly instructed and authorized to do so by your supervisor.
- Do not engage in such other practices as may be inconsistent with ordinary and reasonable common sense safety rules.
- Help to prevent accidents.
- Lift properly, use your leg muscles, not your back muscles. For heavier loads, ask for assistance.
- Do not throw objects.
- Clean up spilled liquid, oil, or grease immediately.
- Place trash and paper in proper containers.

Following activities are strictly forbidden

- Welding.
- Storage of pressurized tanks with volume larger than 10 litres.

- Grinding using power tools.
- Storage and handling of fuels (Drain of the fuel or oil system only after agreement with the Pit Marshall).

Guides

- Grinding using power tools is allowed in the designated workplace, ask at Info Point.
- Welding is allowed in the designated workplace under supervision of the authorized person, ask at Info Point.
- Welding of the frame and other parts of the assembled vehicle is allowed when the fuel system has been removed.

Leaving the Paddock

- Paddock must be left before Saturday 8pm in the condition it has been received. Its condition will be approved by the Pit Marshall and team may apply for the deposit withdrawal between 6pm - 8pm only.
- Team is allowed to take the team tag when leaving the Paddock.

Taking car out of the Paddock

- All cars must be accompanied by a wingman, who walks in front of a car and is responsible for a clear way ahead.

Working on the Tractive System (EV and E-DV)

- An ESO accompanied with a reasonable amount of team members who can interfere in case of emergency must attend every activity which involves active tractive system.
- Opening any tractive system enclosure is only permitted if it is de-energized and disconnected from any high voltage source. If the enclosure is inside the vehicle, the accumulator container needs to be removed from the vehicle.
- Opening the accumulator containers is only permitted in the charging area. Opening the accumulator container in the pits leads to the team disqualification.
- The tractive system in pits may only be activated in compliance with all following rules:
 1. Complete Scrutineering procedure must be successfully finished.
 2. The car must be jacked up and all driven wheels removed.
 3. One team member must be prepared to push an emergency button at any time, another person secures the perimeter around the car.
 4. Team members who perform a task on the vehicle must wear compliant safety gloves and use appropriate measurement devices and tools.
 5. The tractive system must only be active for minimum necessary time (team should estimate time needed for a task beforehand).
 6. Maximum 2 members of vehicle's team are allowed to stay in the vicinity of a car and one of them must be ESO.
 7. Dedicated pit area around the vehicle must be visibly separated but must not be an obstacle in case of emergency (e.g. warning tape).
 8. Appropriate extinguisher must be nearby and instructed person must be ready to use it in case of emergency.

Running Engines or Motors

- Running engines (IC) or activation of ready to drive mode (EV, E-DV) is allowed after completed Scrutineering in the designated areas only. Activation of ready to drive mode in pits leads to the team disqualification.

RULES ADDENDUM

FSCZ Rules 2022

The Formula Student Czech Republic (FSCZ) competition will comply with the FSG Rules 2022. Changes and additions specific to FSCZ are located within this

document and supersede the respective sections of the published FSG Rules 2022 document.

The Formula Student Czech Republic Handbook 2022 is to be considered part of the rules. In case of any contradiction between this document and FSG Rules 2022, here mentioned rules are to be considered valid.

Additionally, any team in the combustion class can either run a standard combustion vehicle according to the standard rules or run a hybrid combustion vehicle according to the FS CV Hybrid rules.

FSCZ Procedures and Scoring:

The event will be run with three classes — CV/CV Hybrid, EV and DV — with all static and dynamic (except DV class) events being run together but scored separately. Vehicles which are built according to the FS CV Hybrid rules will be scored together with non-hybrid combustion vehicles.

Category	CV & EV	DV
Business Plan Presentation	75	75
Cost and Manufacturing	100	100
Engineering Design	150	300
Skid Pad	75	75
Acceleration	75	75
Autocross	100	100
Endurance	325	-
Trackdrive	-	200
Efficiency	100	75
Total	1000	1000

No autonomous system is required for CV and EV categories - Autonomous System components may be removed from the car or left in the car at the team's discretion.

Rules 14.7 do apply and will be enforced in scrutineering.

Rules 2022/A1.2.6 to A1.2.8 are void.

Rules 2022/A4.1.1: no team will participate in any DC.

Rules 2022/A4.4 is void.

Rules 2022/A5.6.3 all points marked [DC only] may be included in the VSV, but do not have to be.

Rules 2022/A6.3.2 is void.

Rules 2022/T14 is void with the exception: If an Autonomous System is present, the following applies:

- the ASMS must be switched off at all times.
- the ASB must be deactivated/discharged. Rules 2022/T14.7 apply.

Rules 2022/T15 is void.

Rules 2022/CV1.2.2 is void.

Rules 2022/IN6 is void, however T14.7 will be inspected if autonomous system components are mounted.

Rules 2022/IN11.2 is void.

Rules 2022/S2.4.4 the Autonomous System is not considered a "system" (read: it is not required but may remain in the car).

Rules 2022/S3 Autonomous System will not be considered in the Engineering Design Event but Autonomous System components may remain in the car.

Rules 2022/S3.7 is void.

Rules 2022/D2.2.8 is void.

Rules 2022/D2.4 to D2.7 are void.

Rules 2022/D6.4 and D6.5 are void.

Rules 2022/D8 are void.

DV 1.3. Due to technical reasons no official data loggers are planned to be provided to the teams*.

Teams should be able to show system state in case of failure from their debug systems in case of protests. This includes a basic set of signals defined in the FSG rules and the set of vehicle-individual signals that have to be monitored by the EBS to ensure redundancy and fault detection.

D 4.3.1. Each team has maximum four runs.

D 4.3.3. Staging — The foremost part of the vehicle is staged 10m in front of the timekeeping line. The final distance might be published before the starts according to real conditions of the track.

D 4.3.6. The vehicle will exit at the intersection moving in the same direction as entered and must come to full stop inside the marked exit lane.

The length of finish lane will probably shorter than 25 m according to real possibilities of the track. Final distance will be published at the event. Usage of the EBS inside marked exit lane will not lead to the DSQ.

D 5.3.1. Each team has maximum four runs.


D 6.3.2 Each team has maximum four runs.

D 8.2.3. Each team has two runs consisting of ten laps.

D 8.4.1. Energy efficiency is measured during the trackdrive event. Final evaluation is based on faster run from two valid runs.

Changes Against FSG Handbook 2021

DE 6.2.3 The cones used at the competition are equal to the cones listed in table below despite that there will be letters "FSGZECH" or "VALEO" on the black/white band of the cones (white/black respectively).

Type	Dimensions	Picture
Big orange cone two white stripes	270mmx270mmx500mm	
Small orange cone one white stripe	220mm x 220mm x 300mm	
Small yellow cone one black stripe	220mm x 220mm x 300mm	
Small blue cone one white stripe	220mm x 220mm x 300mm	

EVENTS



SCRUTINEERING

Procedure

- Scrutineering CV contains Pre-Inspection, Mechanical Inspection, Vehicle Weighing, Tilt Test, Noise Test, Brake Test.
- Scrutineering DV contains Pre-Inspection, LV Electrical Inspection, Mechanical Inspection, HV Electrical Inspection, Autonomous Scrutineering, Vehicle Weighing, Tilt Test, (Rain Test), Brake Test and EBS test. We strongly advise DV teams to prepare well for all mechanical and electrical parts – know your car! Long phone consultations with your teammates at home will not be accepted.
- Scrutineering EV contains Pre-Inspection, LV Electrical Inspection, Mechanical Inspection, HV Electrical Inspection, Vehicle Weighing, Tilt Test, Rain Test and Brake Test.

All parts should be performed in the described order, with one exception for EV.

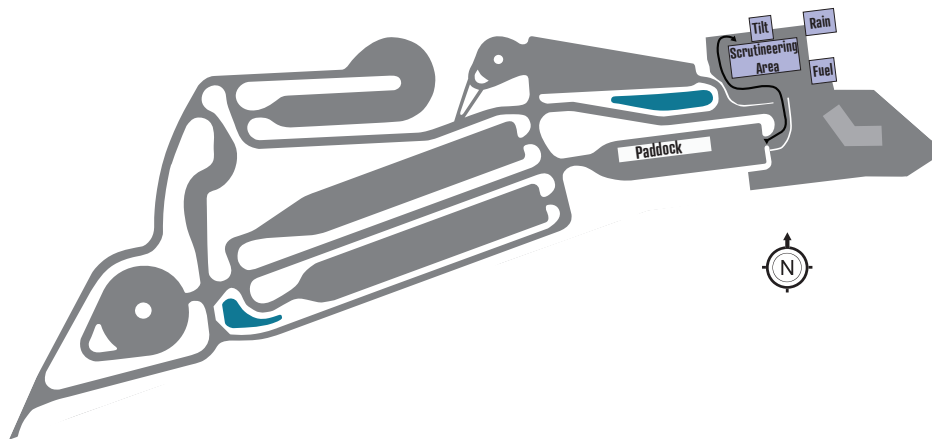
Schedule and Time Management

- Scrutineering requests will be handled by the virtual queue system. Login will be possible through the portal. fsczech.cz or QR code displayed in the pits (only team captain). No physical lanes will be formed for scrutineering.
- Once the team is ready for the 1st attempt of Scrutineering, the team representative fills in an online form. Team is not allowed to enter the 1st attempt of Scrutineering before this procedure.
- Teams are staying in the pit and when the time slot for dedicated team is ready, Official will notify Team Captain by email and pick up them to enter the 1st attempt of Scrutineering.
- 2nd attempt of scrutineering is also managed by the online form system with priority setting first come, first served.
- 1st attempt of the Scrutineering is always prioritized over 2nd attempt.

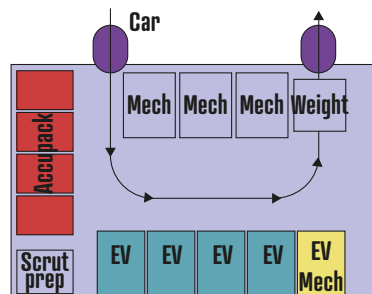
Scrutineering Rules

- Each team has 2 hours for every scrutineering attempt starting by entering the scrutineering area in the Gallery.
- Up to 15 minutes from total attempt time may be used for fixing the eventual violations against the rules.
- If 2 hours of total time or 15 minutes of fixing time run out, the scrutineering attempt ends and the team must return to the pit.
- Team may register the second attempt immediately after the first attempt.
- Scrutineering stages have defined order and cannot be swapped. (for example — it is not possible to start mechanical inspection before successfully finishing electrical inspection LV)
- During time for problem solving, scrutineer can continue with other points from scrut-sheet if possible (cumulative fixing timer is not stopped)
- Pre-scrutineering is not limited in time and will be performed in the pit.

Way to Scrutineering

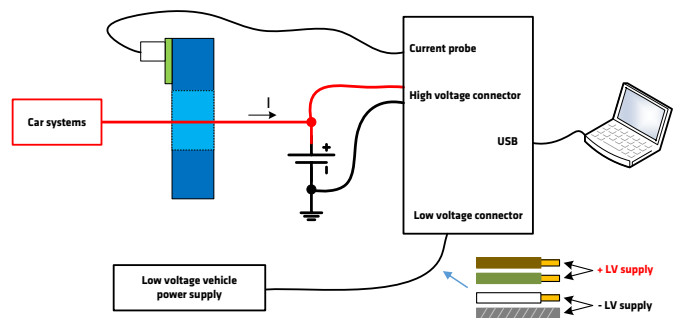
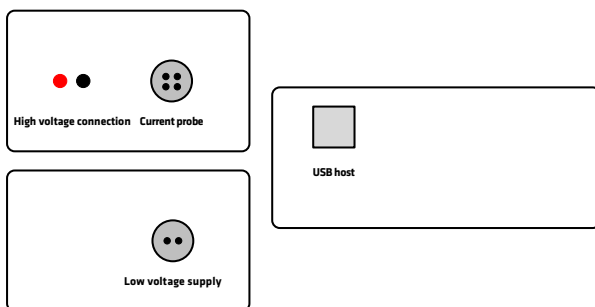
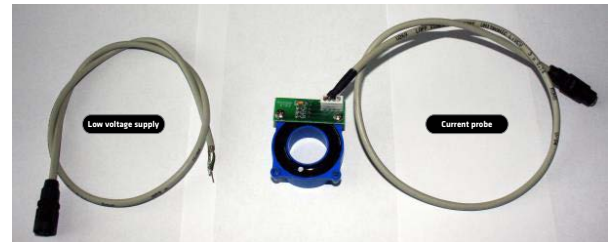
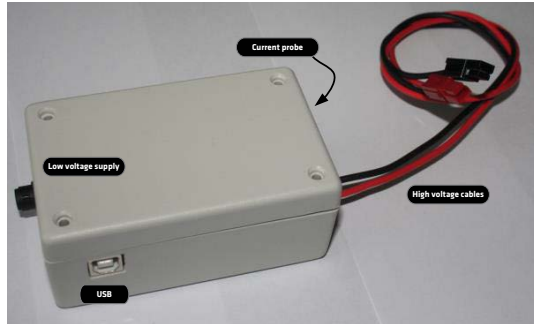


Technical Inspection Organization



Energy Meter User's Guide

- The serial number of the main unit must match with the correct current probe.
- The orientation of the current must be wired according to the basic connection diagram.



STATIC EVENTS

Engineering Design

CZ-ED-1: General

Teams submit EDR and DSS according to the Rules. Event will be held live in the Paddock.

CZ-ED-2: Schedule

Engineering design event will take place on:

- Wednesday 20.7. for DV category.
- Thursday 21.7. for CV & EV categories.

CZ-ED-3: Timeslot description

Every team has a time slot of 60 minutes reserved for:

- 05 minutes - Short presentation of the Season 2022 goals by team captain (up to 5 minutes).
- 40 minutes - Following discussion with judges in breakout groups according to the list of categories from table 2.
- 10 minutes - Only for judges - evaluation.
- 05 minutes - Feedback from judges to team.

CZ-ED-4: Judges will be visiting teams in their pits. Teams are advised to be there on time with a car in the race ready condition. There will always be at least one judge per each category according to table 2. Feedback will be provided by the judging group immediately after ED time slot.

Live EDR feedback session will take place at Škoda Lounge on:

- 17:00 - 18:30 Wednesday 20.07 for FSD category.
- 16:30 - 18:00 Thursday 21.07 for FSC & FSE categories.

Use this opportunity to speak with your judge and get feedback.

CZ-ED-4: replaces S 3.4.3 - Engineering design finals

Some teams may be chosen to participate in the design finals to determine the engineering design event winner. The design finals will be held separately from the initial judging and teams will be informed about their participation during the event.

- Design finals will be held only for FSC&FSE categories on Thursday 21.07 at 19:30.

- Best team from each group will be invited to participate in the ED finals.
- Teams invited to the ED finals will be informed latest at 17:30.
- ED finals will take place at “Karussell” part of the track.

CZ-ED-5: replaces S 3.7.1 - maximum number of points

The overall engineering design event maximum scoring is 150 points for CV&EV and 300 points for DV categories.

CZ-ED-6: replaces S 3.7.2 - ED points breakdown

The maximum scores listed in table below apply for the engineering design event on FSCzech 2022 event:

Category	CV & EV	DV
Overall Vehicle Concept	35	35
Vehicle Performance	30	25
Mechanical / Structural Engineering	25	20
Tractive System / Powertrain	25	20
LV-Electrics / Electronics / Hardware	20	30
Driver Interface	10	-
Autonomous Functionality	-	
DV - Sensor Perception	-	30
DV - Localization and Mapping	-	30
DV - Planning and Control	-	30
DV - Data Processing and Usage of Tools	-	30
DV - SW Development, FuSa and Cyber Security	-	30
Engineering Design Report (EDR)	5	-
Autonomous Design Report (ADR)	-	15
Total	150	300

CZ-ED-7: Engineering Design event schedule

Driverless - Wednesday 20.7.

Time Slot	#	Team Name
09:00 - 10:00	D22	KA-RaceIng Driverless
10:05 - 11:05	D54	BCN eMotorsport
12:00 - 13:00	D67	eForce Driverless
13:05 - 14:05	D19	FS Team Tallinn Driverless

14:20 - 15:20	D1	AGH Racing DV
---------------	----	---------------

Combustion - Thursday 21.7.

Group C1			Group C2		Group C3		Group C4		Group C5	
Time Slot	#	Team Name	#	Team Name	#	Team Name	#	Team Name	#	Team Name
09:00 - 10:00	C8	Cerber Motorsport	C77	Centaurus Racing Team	C96	FSTU Liberec racing	C95	FESB Racing	C35	UNI Maribor Grand Prix Engineering
10:05 - 11:05	C88	UniBo Motorsport	C34	YTU Racing	C20	FaSTDa Racing - Combustion	C33	CTU CarTech	C4	PRz Racing Team
11:20 - 12:20	C68	CULS Prague Formula Racing	C89	Formula TU Ostrava	C82	BME Motorsport	C13	WUT Racing Team	C12	Aristotle Racing Team
13:15 - 14:15	C28	UCO Autosport	C71	Aixtreme Racing	C69	UPB Drive			C78	Tampere Formula Student

Electric - Thursday 21.7.

Group E1			Group E2		Group E3		Group E4		Group E5	
Time Slot	#	Team Name	#	Team Name	#	Team Name	#	Team Name	#	Team Name
09:00 - 10:00	E34	TU Istanbul Racing	E86	UoP Racing Team	E28	Herkules Racing Team	E13	FaSTTUBe	E2	YTU Racing E
10:05 - 11:05	E91	Lions Racing e.V.	E6	T.U.C. Racing .e.V.	E67	eForce FEE Prague Formula			E58	UPBracing Team
11:20 - 12:20	E98	Metropolia Motorsport	E45	BRS Motorsport	E96	WHZ Racing Team	E88	UniPR Racing Team	E74	TU Brno Racing
13:15 - 14:15	E23	Running Snail Racing Team	E20	UMD Racing e.V.	E97	Mainfranken Racing e.V.	E53	Speeding Scientists Siegen e.V.	E90	STUBA Green Team

Business Plan Presentation

CZ-BP-1: General

Teams submit BPPV according to the Rules. Event will be held live in the classrooms equipped with a beamer or LED screen. Be ready to use VGA and HDMI connections.

CZ-BP-2: Schedule

Presentations are held in the circuit's classrooms in the Office Building and Halls A/B and are equipped with beamers (VGA) or LED screens (HDMI)

CZ-BP-3: Timeslot description

Business plan presentation event will take place on:

- Wednesday 20.7. for DV & CV categories
- Thursday 21.7. for EV category

CZ-BP-4: Every team has a time slot of 35 minutes reserved for:

Business plan presentation (max 10 minutes as stated in S1.2.1) including deep dive topic presentation

Q&A session with judges 10 minutes

Feedback will be provided verbally during last 5 minutes of time slot

CZ-BP-5: replaces S 1.4.3 - Business plan presentation finals

Some teams may be chosen to participate in the BPP finals to determine the BPP winner.

The BPP finals will be held separately from the initial judging and teams will be informed about their participation during the event.

Design finals will be held only for CV&EV categories. FSE finals will take place on Wednesday 20.7. in the evening on the main stage. CV finals will take place on Thursday 21.7. in the evening on the main stage.

CZ-BP-6: Time slots assignment

Driverless - Wednesday 20.7.

Time Slot	#	Team Name
11:00 - 11:35	D22	BCN eMotorsport
11:40 - 12:15	D54	AGH Racing DV
13:15 - 13:50	D67	eForce Driverless
13:55 - 14:30	D19	FS Team Tallinn Driverless
14:40 - 15:15	D22	KA-RaceIng Driverless

Combustion - Wednesday 20.7.

	Group C1		Group C2		Group C3		Group C4	
Time Slot	#	Team Name	#	Team Name	#	Team Name	#	Team Name
11:00 - 11:35	C13	WUT Racing Team	C68	CULS Prague Formula Racing	C8	Gerber Motorsport	C77	Centaurus Racing Team
11:40 - 12:15	C78	Tampere Formula Student	C35	UNI Maribor Grand Prix Engineering	C95	FESB Racing	C96	FSTU Liberec racing
13:15 - 13:50	C33	CTU CarTech	C88	UniBo Motorsport	C20	FaSTDa Racing - Combustion	C34	YTU Racing
13:55 - 14:30	C82	BME Motorsport	C12	Aristotle Racing Team	C89	Formula TU Ostrava	C4	PRz Racing TEam
14:40 - 15:15			C71	Aixtreme Racing	C69	UPB Drive	C28	UCO Autosport

Electric - Thursday 21.7.

	Group E1		Group E2		Group E3		Group E4	
Time Slot	#	Team Name	#	Team Name	#	Team Name	#	Team Name
11:00 - 11:35	E90	STUBA Green Team	E20	UMD Racing e.V.	E34	TU Istanbul Racing	E23	Running Snail Racing Team
11:40 - 12:15	E2	YTU Racing E	E86	UoP Racing Team	E53	Speeding Scientists Siegen e.V.	E28	Herkules Racing Team
13:15 - 13:50	E58	UPBracing Team			E67	eForce FEE Prague Formula	E74	TU Brno Racing
13:55 - 14:30	E96	WHZ Racin Team	E98	Metropolia Motorsport	E45	BRS Motorsport	E88	UniPR Racing Team
14:40 - 15:15	E6	T.U.C. Racing e.V.	E97	Mainfranken Racing e.V.	E91	Lion Racing Team e.V.	E13	FaSTTUBe

CZ-BP-7: Deep Dive Topic

The global economic situation is quickly deteriorating into a fully-fledged financial crisis. Supply chain is expected to have serious delivery issues, rising inflation affects the price of parts and labour unions are asking to adjust salaries according to the developing situation, all the while consumer demand is expected to decrease.

What to analyse for proper assessment:

Explain specifically how you would adapt your business to stabilise your market position together with your growth strategy in the coming two years of instability.

Elaborate on how you would communicate and execute on contingency plans regarding your key resources (materials, finances, HR), in the case your business has to take drastic measures to survive.

Cost & Manufacturing

CZ-CM-1: General

Teams submit CRD according to the Rules. Event will be held live in the Paddock.

CZ-CM-2: Schedule

Cost and manufacturing event will take place on:

- Wednesday 20.7. for DV category
- Wednesday 20.7. and Thursday 21.7. for CV & EV categories

CZ-CM-3: Timeslot description

Every team has a time slot of 30 minutes reserved for:

- Part 1 "BOM Discussion"
- Part 2 "Cost Understanding"
- Part 3 "Real case"

CZ-CM-4: Judges will be visiting teams in their pits. Teams are advised to be there on time. Be aware that judges are taking into account only what is on the car, not what should be on it, thus the car should be in the race ready condition.

CZ-CM-5: Costed bill of material

For FSCzech 2022 a CBOM (see S2.6) for the "Suspension System" must be submitted.

CZ-CM-6: Detailed bill of material

For FSCZ 2022 a DBOM (see S2.5) for the "Chassis and Body System" must be submitted.

CZ-CM-7: Real case scenario task

FSCzech 2022 Real Case Scenario:

How would you optimise the cost of a wheel hub (rear or front) manufacturing processes in real life, when material availability is short by 50% and its cost increases by 100%?

CZ-CM-8: Time slots assignment

Driverless - Wednesday 20.7.

Time Slot	#	Team Name
09:00 -	D67	eForce Driverless
09:35 - 10:05	D19	FS Team Tallinn Driverless
10:20 - 10:50	D22	KA-Racing Driverless
10:55 - 11:25	D1	AGH Racing DV
11:30 - 12:00	D54	BCN Motorsport

Combustion - Wednesday 20.7.

Group C3

Time Slot	#	Team Name
09:00 - 09:30	C13	WUT Racing Team
09:35 - 10:05	C68	CULS Prague Formula Racing
10:10 - 10:40	C20	FaSTDa Racing - Combustion
10:55 - 11:25	C34	YTU Racing
11:30 - 12:00	C35	UNI Maribor Grand Prix Engineering

Combustion - Thursday 21.7.

Group C1

Group C2

Time Slot	#	Team Name	#	Team Name
09:00 - 09:30	C89	Formula TU Ostrava	C82	BME Motorsport
09:35 - 10:05			C78	Tampere Formula Student
10:10 - 11:40	C69	UPB Drive	C71	Aixtreme Racing
10:55 - 11:25	C77	Centaurus Racing Team	C8	Cerber Motorsport
11:30 - 12:00	C96	FSTU Liberec racing	C95	FESB Racing
13:00 - 13:30	C4	PRz Racing Team	C12	Aristotle Racing Team
13:35 - 14:05	C88	UniBo Motorsport	C33	CTU CarTech
14:10 - 14:40	C28	UCO Autosport		

Electric - Wednesday 20.7.

Group E1

Group E2

Group E3

Time Slot	#	Team Name	#	Team Name	#	Team Name
09:00 - 09:30	E13	FaSTTUBe	E91	Lion Racing Team e.V.		

09:35 - 10:05	E28	Herkules Racing Team	E53	Speeding Scientists Siegen e.V.		
10:10 - 10:40	E97	Mainfranken Racing Team e.V.	E58	UPB Racing Team		
10:55 - 11:25	E67	eForce FEE Prague Formula	E74	TU Brno Racing		
11:30 - 12:00	E96	WHZ Racin Team	E45	BRS Motorsport		
13:00 - 13:30	E86	UoP Racing Team	E2	YTU Racing E	E98	Metropolia Motorsport
13:35 - 14:05	E90	STUBA Green Team			E88	UniPR Racing Team
14:10 - 14:40	E20	UMD Racing e.V.	E34	TU Istanbul Racing	E6	T.U.C. Racing e.V.
14:55 - 15:25					E23	Running Snail Racing Team

DOCUMENT UPLOAD

Procedure

Teams upload Mandatory Documents within following deadlines and tools:

Type	Category	Tool	Deadline	Penalty
SES, SESA, SE3D	ALL	portal.fsczech.cz	May 13 1200CEST	5/day
EAIR	EV	FSG website	May 13 1200CEST	5/day
ESF	EV	FSG website, copy on portal	May 13 1200CEST	5/day
IAD	ALL	portal.fsczech.cz	May 13 1200CEST	5/day
HSD	Hybrid CV	portal.fsczech.cz	May 13 1200CEST	5/day
DSS	ALL	portal.fsczech.cz	June 10 1200CEST	5/day
EDR	ALL	portal.fsczech.cz	June 10 1200CEST	5/day
BPPV	ALL	portal.fsczech.cz	June 10 1200CEST	5/day
CRD	ALL	portal.fsczech.cz	June 10 1200CEST	5/day
VSV	ALL	portal.fsczech.cz	June 24 1200CEST	5/day
TMD	ALL	portal.fsczech.cz	June 24 1200CEST	5/day

In case team has any of documents approved in the FSG system, providing evidence of it can be used to get direct approval by FSCZ.

Event accepts templates from all EU events as these are united. There is no need to fill another form then you did for different event. In case of need, templates are available on the portal. fsczech.cz.

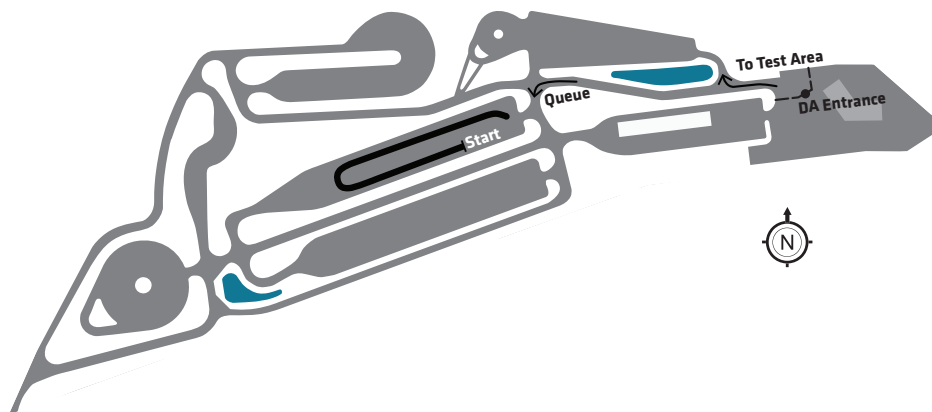
DYNAMICS

Timekeeping

Timekeeping is optical, a racing car doesn't need any transponder.

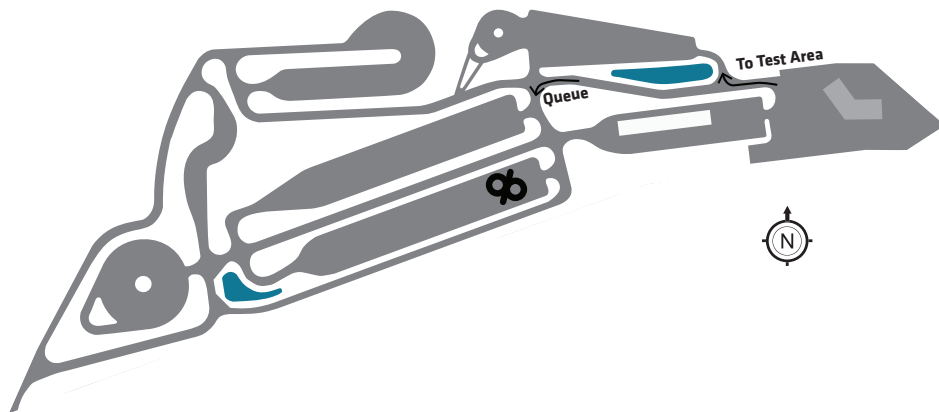
Acceleration

- Cars queue: on straight in front of the race track — split to 1st and 2nd driver (priority of 1st).
- Scheme: 2 drivers, 2 runs each.
- Flags: green — good to go, red — stop the car, checker — the run has finished.



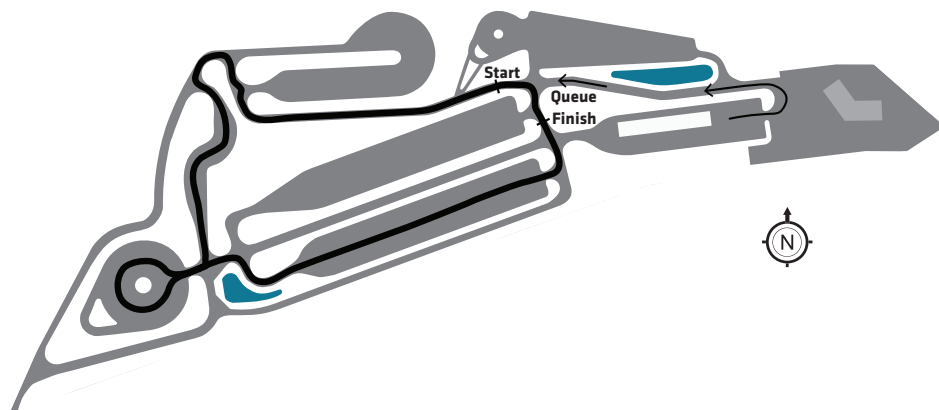
Skid Pad

- Cars queue: on the northern road behind the pits — split to 1st and 2nd driver (priority of 1st).
- Scheme: 2 laps to the right than 2 laps to the left and out.
- Flags:
 1. green: good to go.
 2. red: stop the car.



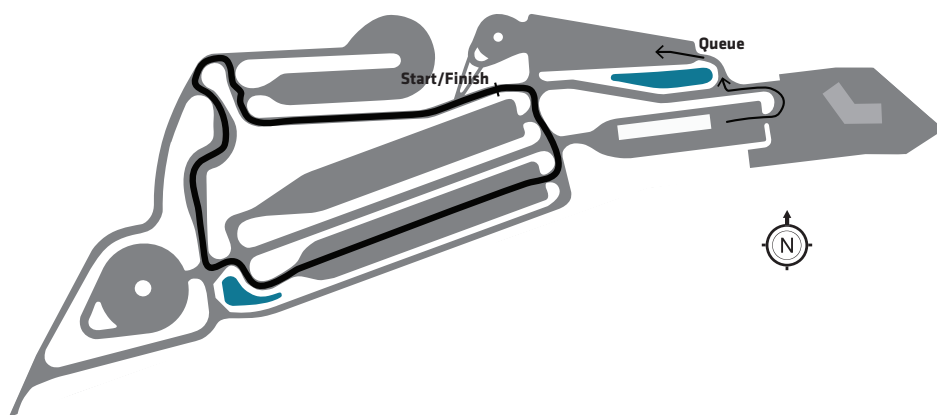
Autocross

- Cars queue: on the northern road behind the pits — split to 1st and 2nd driver (priority of 1st).
- Scheme: one car on the track, two laps per driver.
- Disabled cars: car could restart without assistance or "DNF", pushed to the safe position (grass) — event will continue after track will be cleared.
- Disabled vehicle retrieve: every hour under instruction of the track marshals.
- Flags:
 1. green: good to go.
 2. checker: finish of the run.
 3. red: stop the car on the track.



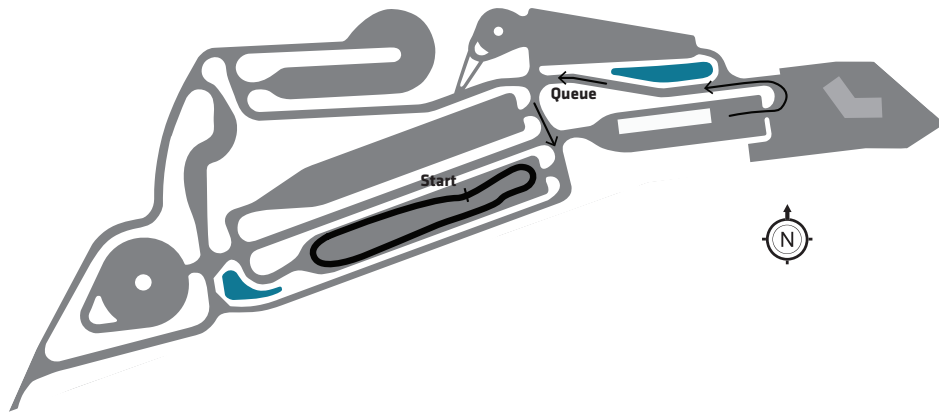
Endurance

- Cars queue: on the northern test track.
- Teams not ready-to-run in announced run order will be penalized with 2 minutes.
- Minimum speed requirement: car slower than 145% of the fastest lap time must exit.
- Disabled cars: stalled car could restart for approximately 1 minute (1 lap time of the rival) without assistance or "DNF", push it to the safe position (grass) — event will continue after track will be cleared if necessary.
- Disabled vehicle retrieve: after session under instruction of the track marshals.
- Flags:
 1. green: good to go.
 2. checker: finish of the run.
 3. yellow: danger on the track — drive carefully and slowly / waving of yellow flag — stop the car.
 4. red: stop the car on the track.
 5. blue: overtaking.



Trackdrive

- Cars queue: on the northern test track.
- Teams not ready-to-run in announced run order will be penalized with 2 minutes.
- Minimum speed requirement: car slower than 145% of the fastest lap time must exit.
- Disabled cars: stalled car could restart for approximately 1 minute (1 lap time of the rival) without assistance or "DNF", push it to the safe position (grass) — event will continue after track will be cleared if necessary.
- Disabled vehicle retrieve: after session under instruction of the track marshals.



Parc Fermé

After the Endurance event, all finished vehicles will be placed in the Parc Fermé where no team member may access the vehicle without being accompanied by an Official for 30 minutes. Officials will check the vehicle for compliance with the Rules.

Force Majeure

Organizers represented by the Jury have a full right to adjust discipline's rules or to entirely cancel the discipline under Force Majeure situation, which jeopardize dynamic event safety. Application of this rule can't be protested against.

General Notes

- Access to the Dynamic Area is allowed to the Team Members with Dynamic Pass (vest) or Media Pass (vest) only.
- Media Pass can be obtained at Info Point. Every Media Pass holder must wear an appropriate vest in the Dynamic Area. Vests are available at Info Point (10EUR deposit).

PENALTIES

Penalized actions

Action	Penalty*
Wearing open shoes in designated areas (outside the campside area)	5
Power tool usage outside designated area	25
Welding outside designated area	50
Engine / E-motor runing outside designated area	Team disqualification
Alcohol ** / smoking outside designated areas	100
Driving scooter in any area	25
To many members in the Dynamic Area	10
Media Pass holder asisting a team in the Dynamic Area	10
Requesting Scrutineering without being ready	5

* If repeatedly violated penalty is doubled every time.

** If any team member is tested with an alcohol level higher than 0.0 ‰, he or she will be immediately disqualified for the rest of the competition. A second team member being found to have an alcohol level higher than 0.0 ‰ will result in the entire team being disqualified immediately.

RESULTS

Result publishing

The results will be posted on the results board at the Info Point as soon as they are available. Furthermore, they will be published online at the FSCzech website.

Expected Date & time of result publishing (without top 3 names)

Day	Time	Event
Friday	10am	Engineering Design
Friday	10am	Business Plan Presentation
Friday	10am	Cost & Manufacturing
Saturday	11am	Acceleration
Saturday	11am	Skid Pad
Saturday	8am	Autocross
Saturday	11pm	Endurance, Fuel Economy, Energy Efficiency

Protests

Required Review: Any team that intends to protest a rule, score, judge's decision or any other aspect of the competition, must present the issue to the FSCzech Officials. Please contact Info Point, they will arrange a meeting with representative.

- **Cause for Protest:** A team may protest any rule interpretation, score or official action (unless specifically excluded from protest) which they feel has caused some actual, non-trivial, harm to their team, or has had a substantive effect on their score. Teams may not protest rule interpretations or actions that have not caused them any substantive damage.
- **Protest Period:** Protests must be filed within one hour after the action being protested has occurred or the scores for the activity involving the protest subject are posted.
- **Protest Format:** Protests must be handed in in a written form and submitted by the team captain to Info Point.

- Protest Bond: The protesting team must post a 25 points bond to be deducted from their score if the protest is denied.
- Decision: The decision of the officials regarding any protest is final. Officials. Please contact Info Point, they will arrange a meeting with representative.

Q&A

RayService Trans Tech Tooling



Q: Will there be a maximum team member limit per team? And are there any plans to discount fully vaccinated team members in that limit?

A: No.



ŠKODA

General Partner



Valeo

SMART TECHNOLOGY
FOR SMARTER MOBILITY

Category Partner

Garrett
ADVANCING MOTION

KOSTAL



Continental

ST
life.augmented

EAT•N

R
RICARDO

SIEMENS

TechSoft

FORVIA
Inspiring mobility

FORVIA
faurecia

FORVIA
The HELLA logo, featuring the word 'HELLA' inside an oval.

DEVINN

J+M
AUTODILY

SICK
Sensor Intelligence.

N O T I X

Partners