

FORMULA STUDENT EASTER RULES 2022

#FORMULASTUDENTEAST

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1. INTRODUCTION

Formula Student Easter® (hereafter “FS Easter®”) is a FSAE style Formula Student engineering competition in Hungary, organized by the Association of Automotive Engineers (formerly Engineers for the Automotive Higher Education Association) from 2021.

Formula Student Easter will allow vehicles with conventional internal combustion engines (gasoline or ethanol fuelled) and electric powertrain. Furthermore Formula Student Easter welcomes the participation of driverless vehicles (both with internal combustion or electric powertrain). The three categories will be evaluated separately:

- Internal Combustion Vehicles (hereafter CV)
- Electric Vehicles (hereafter EV)
- Driverless Vehicles (hereafter DV)

These specific rules are additions to the Formula Student Rules 2022 document (hereafter “FSG Rules 2022”) published by Formula Student Germany (<https://www.formulastudent.de/>) and applicable for 2022. In case of a conflict between the FSG Rules 2022 and the 2022 FS Easter rules, the 2022 FS Easter rules supersede the FSG Rules 2020.

Abbreviations used in this document

Abbreviations used	Name
FSEAST Rules 2022	FS EAST Rules
FSG Rules 2022	FS Rules
CV Hybrid Rules 2022	FS CV Hybrid Rules Extension
ADR	Autonomous Design Report
AS	Autonomous System
ASF	Autonomous System Form
ASR	Autonomous System Responsible
BOM	Bill of Material
CBOM	Costed Bill of Material
CV	Internal Combustion Vehicle
DNF	Did not finish
DOO	Down or out

DQ	Disqualified
DSS	Design Specification Sheet
DV	Driverless Vehicle
EDE	Engineering Design Event
EDR	Engineering Design Report
EV	Electrical Vehicle
SES	Structural Equivalency Spreadsheet
TMD	Team Member Designation
VSV	Vehicle Status Video

2. GENERAL

2.1. COMPETITION DATES AND PLACE

FS Easter 2022 will be held between 24th and 26th June, 2022 at the Zala ZONE automotive test track, at Zalaegerszeg, Hungary.

2.1.1. ACCOMMODATION:

We can provide accommodation in a local college for the participants.

College address:

Zalaegerszeg, Gasparich Márk u. 18/A, 8900

College fee:

12,5 Eur / person / night (Including VAT)

College fee must be transferred to us in advance based on a proforma sent by the organizers, it is not returnable.

2.2. FS EASTER 2022 RULES

The FS Easter competition is compliant with the Formula Student Rules 2022 document (hereafter "Rules 2022") published by Formula Student Germany, which is applicable for 2022:

<https://fseast.eu/fs-east-2022-rules/>

The FS Easter Rules presented in this and the further rule include specific rule changes and additions to the Rules 2020. In case of a conflict between the Rules 2022 and the FS Easter 2022 Rules, the FS Easter 2022 Rules supersede the Rules 2022.

Additionally, all guidelines and clarifications posted in before the event for the participating teams, considered as official documents and therefore are applicable to the teams competing at FS Easter 2022.

2.3. RULE CATEGORY CLARIFICATION

[EV Only] rules are applied to vehicles with electrical drivetrain, [CV Only] rules are applied to vehicles with internal combustion engines.

[DV Only] rules are applied to the driverless vehicles, regardless of the drivetrain, however they are still obligated by the drivetrain specific rules.

2.4. RULES QUESTIONS

Any rule clarification questions or rule ambiguities concerning the rules for FS Easter will be resolved by the FS Easter Rules Committee. The Rules Committee will answer both FS Easter 2022 Rules and Rules 2022 questions, but the decisions and clarifications given are only valid for the FS Easter competition and only for the present competition year.

Rules questions should be submitted to hello@fseast.eu . Do not ask about more than one rule per mail.

2.5. OFFICIAL LANGUAGE

The FS Easter official language is English.

2.6. OFFICIAL TIME

The FS Easter official time:

From	Till	Time
31 October 2021	27 March 2022	Central European Time (CET)
28 March 2022	30 October 2022	Central European Summer Time (CEST)

For all deadlines and decisions only the FS Easter server time is authoritative.

1 day equals 24 hours. One day later is 24 hours after the defined deadline time or reply time of an official.

To convert CET or CEST to your local time you can use following website:

<http://www.timeanddate.com/worldclock/converter.html>

2.7. FS EASTER REGISTRATION

2.7.1. FS EASTER REGISTRATION REQUIRED CONTACT INFORMATION

During the team registration process the team has to add all the necessary informations: team data, university data, billing information, and car data.

All participants have to register on the registration spreadsheet of FS Easter (will be published later), and have to submit all necessary data about themselves (Health Insurance Certificate, etc.). The Team Captain's responsibility to make sure all team members have registered and the uploaded data and documents are correct.

2.7.2. FACULTY ADVISOR

FS Easter recommends that all participating teams have a Faculty Advisor present with them at the competition. In the event that no Faculty Advisor is present during the competition, the Team Captain will take over all responsibilities of the Faculty Advisor.

Any Faculty Advisor being registered as such must be a valid member of the faculty he/she is representing and cannot be a student.

2.8. EVENT HANDBOOK

The FS Easter event handbook may contain special event procedures and restrictions for example regarding working on the car etc. It has to be read and understood by all event participants.

2.9. UNSPORTSMANLIKE CONDUCT

Unsportsmanlike conduct, intentional deception of a judge or a scrutineer, or dangerous irresponsible behaviour may be reason for instantaneous disqualification.

2.10. TESTING AND WORK SAFETY

FS Easter is not responsible for the use of the cars other than at the event at Zala Zone.

Furthermore, the organizers of the FS Easter dissociate themselves from all activities of the teams besides FS Easter and associated events.

Nevertheless, all teams are advised to follow common practices and common sense when working on the vehicle and when operating the vehicle, also before and after the FS Easter event.

Cars designed and manufactured for the participation of Formula Student events should not participate in events not suitable for Formula Student vehicles like hill climbs, drag races or similar events. Teams should never use their cars for wheel-to-wheel races.

The following requirements should be met to qualify as a safe testing/driving environment, but does not mean that following these guidelines guarantees safety under all circumstances.

- Driver wearing full protection gear incl. arm restraints
- Working TSAL, IMD, BMS/AMS, Torque Encoder plausibility check, torque/brake encoder plausibility check, brake system plausibility device, ETC plausibility check, ASSI and EBS if applicable.
- Rules compliant frame/monocoque
- Mounted impact attenuator
- No wheel to wheel racing
- No other passenger cars, trucks etc. being driven on the same premise at the same time, unless the area is clearly separated
- No driving under low visibility conditions
- No driving at speeds above typical event speeds, see Part D of the FS Rules for details
- No driving in areas where crashing into obstacles at the height of the driver's head is possible, such that parts of the vehicle may pass below an obstacle, but the driver's head can be trapped between the obstacle and the main roll hoop for example.

FS Easter reserves the right to disqualify a registered team in case of unsafe driving behaviour, especially if the reputation of Formula Student organizers, sponsors and other teams is compromised. The decision to remove a team from the FS Easter competition has to be made unanimously by the FS Easter rules committee and will be made public on the FS Easter website.

NOTE: This rule has not been established to annoy you, but to ensure that we experience a safe and accident-free Formula Student season.

2.11. [EV ONLY] CHARGING CONNECTOR AND MAX. POWER

Only 32 A three phase (5 pin) sockets, and 16 A single phase versions will be available in the pits.

3. DEADLINES, PENALTIES, AND ADDITIONAL INFORMATION REGARDING DOCUMENTATION

Missing a deadline results in penalties as specified below.

Note, that for the penalties regarding late submission of documentation, 1 day exactly equals 24h. For further details see "Official Time".

Teams, which upload obviously unusable information just to pass a deadline can be de-registered from the event in case of recurrence. Affected teams receive a warning in advance.

If the document is rejected, a new resubmission deadline is defined automatically by the system. It is 4 days (96h) or 7 days (168h) after the rejection time depending on the type of the document. (See the table below.)

Late submissions (missing the original deadline or the resubmission deadline after a rejection) will be penalized with 10 (ten) or 5 (five) points for each overdue day depending on the type of the document. (See the table below.)

A 3rd rejection of a document will be penalized with an extra 25 (twenty-five) points.

A 4th rejection of a document will be penalized with an extra 50 (fifty) points.

A 5th, and any further rejection of a document will be penalized with an extra 75-75 (seventy-five per occasion) points.

Failure to submit Cost Report Documents - Electronic Copy, or Executive Summary - Electronic Copy documents will automatically result in zero points for the given Event.

Document:	Class:	Required for:	Re-upload deadline (days)	Daily penalty points	Maximum applicable penalty points:
Electronic Throttle Control - System Description	CV and CV DV with ETC	Dynamic events	7	10	No limit
Team Member Designation and Health Insurance Certificate	All	All events		0	

Document:	Class:	Required for:	Maximum applicable penalty points:
Structural Equivalency Spreadsheet (SES)/ Structural Equivalency 3D model (SE3D)	All	Dynamic events	no limit
Impact Attenuator Data (IAD)	All	Dynamic events	no limit

Document:	Class:	Required for:	Maximum applicable penalty points:
Electrical Systems Form (ESF)	EV and EV DV	All events	no limit

Document:	Class:	Required for:	Maximum applicable penalty points:
Autonomous Safety Form (ASF)	DV	All events	no limit

Document:	Class:	Required for:	Maximum applicable penalty points:
Vehicle Status Video (VSV)	All	All Events	No limit

Document:	Class:	Required for:	Maximum applicable penalty points:
Business Plan Presentation Electronic Copy	All	Business Plan Presentation Event	75 out of 75 (Business Plan Presentation)

3.1. [CV & CV-DV ONLY] ELECTRONIC THROTTLE CONTROL (ETC) SYSTEM DESCRIPTION

CV teams, which are using Electronic Throttle Control have to upload an ETC System Description. A template will be available on the www.fseast.eu website.

Late submission of the System Description will require the team to revert to a mechanical throttle arrangement.

3.2. [CV ONLY] FUEL TYPE ORDER

The teams must inform FS Easter of the type of fuel they intend to use. The fuel type can be chosen after registration at FS Easter spreadsheet. The fuel types provided are expected to be 100 octane (RON 100) gasoline and Mol Fuel DRX Fuel (<https://mol.hu/en/racing-fuel-drx/>) for teams using E-85.

3.3. [EV ONLY] ELECTRICAL SYSTEM FORM (ESF)

All EV teams and DV teams with electric traction systems must submit an Electrical System Form.

Teams with a submitted and accepted ESF on the FSG website do not need to provide any further documents. Teams with no ESF submitted on the FSG website need to send their ESF to the hello@fseast.eu.

3.4. [EV ONLY] ELECTRICAL SYSTEM OFFICER(S) DECLARATION

All EV teams and DV teams with electric traction systems must declare Electrical System Officer(s). Please note the responsibilities of the ESO in A4.3 of the FSG Rules 2022. The ESOs have to be nominated by the team captain on login.fseaster.eu. The number of ESOs are limited to 5 per team.

No Diploma or degree will be required, but a liability statement needs to be received and signed on the event.

3.5. [DV ONLY] AUTONOMOUS SYSTEM FORM (ASF)

All DV teams must submit an Autonomous System Form.

Teams with a submitted and accepted ASF on the FSG website do not need to provide any further documents. Teams with no ASF submitted on the FSG website need to send their ASF to the hello@fseast.eu.

3.6. [DV ONLY] AUTONOMOUS SYSTEM OFFICER(S) DECLARATION

All DV teams must submit an Autonomous System Responsible(s) Form. Please note the responsibilities of the ASR in A4.4 of the FSG Rules 2022. The number of ASRs are limited to 5 per team.

The ASOs have to be nominated by the team captain on the registration spreadsheet. No Diploma or degree will be required, but a liability statement needs to be received and signed on the event.

3.7. ENGINEERING DESIGN DOCUMENTS

3.7.1. ENGINEERING DESIGN REPORT

No Engineering Design Report needs to be submitted to FS Easter 2022.

3.7.2. DESIGN SPEC SHEET

No Design Spec Sheet needs to be submitted to FS Easter 2022.

3.7.3. [DV ONLY] AUTONOMOUS DESIGN REPORT

No Autonomous Design Report needs to be submitted to FS Easter 2022.

3.8. COST REPORT DOCUMENTS

No electronic or written copy is needed.

3.9. BUSINESS PLAN DOCUMENTS**3.9.1. EXECUTIVE SUMMARY**

No Executive Summary is required for FSEaster 2022.

3.9.2. BUSINESS PLAN PITCH VIDEO

No Pitch Video is required for FSEaster 2022.

3.9.3. BUSINESS PLAN PRESENTATION - ELECTRONIC COPY

The Business Plan Presentation - Electronic Copy must be sent via email to hello@fseast.eu no later than 2022. June 24. 21:00

3.10. TEAM MEMBER DESIGNATION AND HEALTH INSURANCE CERTIFICATE

Participating team members must be designated prior to the event. To designate a team member, please fill out the spreadsheet published before the event.

In case the health insurance data of one or more team members is missing or incorrect, FS Easter will decline the designation of the team member(s) in question. Only designations of team members with complete and correct health insurance information will be accepted.

Team members that were declined can be registered again after their health insurance data has been corrected.

4. TECHNICAL RULES

There is no specific rule addition to Chapter 4 in the FS East Rules 2022. In case of a conflict between the FSG Rules 2022 and the FS East Rules 2022, the FS East Rules 2022 supersede them.

5. STATIC EVENTS

During all static events (both initial and final judging) a team member may participate only in that team's event, which she/he is registered in. Universities participating with multiple vehicles are considered as separate, individual teams and each participant must be a member of one and only one team. Active participation on other teams' static events will be penalized. Enforcing this principle, the distinct static events of these teams will be scheduled in parallel, in the same time slot.

5.1. BUSINESS PLAN PRESENTATION EVENT

5.1.1. BUSINESS PLAN DOCUMENTS

The Business Plan Presentation Event's documents consist of the following documents:

- Business Plan Presentation - Electronic copy

Executive Summary and Pitch Video are NOT required for FSEaster 2022.

5.1.1.1. BUSINESS PLAN PRESENTATION ELECTRONIC COPY

Specific FS Easter rule addition

The Business Plan Presentation - Electronic Copy must be sent via email to hello@fseast.eu no later than 2022. June 24. 21:00

5.1.2. DATA PROJECTION EQUIPMENT

Plasma display/LCD Monitors will be provided by FS Easter. These displays will have HDMI Input Connector. The organizers will not provide any other presentation equipment (e.g. laptop). Teams planning to use other equipment as a part of their presentation, are responsible for bringing, or otherwise arranging for their own equipment. Please note that only Schuko sockets (CEE 7/3) will be provided.

5.1.3. JUDGING SEQUENCE

At FS Easter Business Plan Presentation judging will consist of 1 parts for each category, judging all the teams (the number of top teams will be decided by judges on-site).

5.1.4. BUSINESS PLAN PRESENTATION SCORING FORMULA

Each category is evaluated separately.

NOTE: If rounding - down or up - the average is needed, it will be decided by Judges in the given Judge Group on spot, before the Static Day ends.

NOTE: CV, DV and EV categories will be evaluated separately. The scoring sheet's structure and its content is same as for FSEast2022.

5.2. COST AND MANUFACTURING EVENT

5.2.1. COST REPORT DOCUMENTS

The Cost Report Documents (CRD) consist of the following documents:

- The BOM including DBOM and CBOM created online on the Formula Student Germany website

All CRD documents must be printed by the team and brought as a hard copy to the Event. Two hard copies or a splittable folder of the CRD is allowed to use at the discussion.


5.2.1.1. ELECTRONIC COPY

For the creation of the BOM, the teams have to use the CBOM tool available on the www.formulastudent.de website. This tool provides a printable *.pdf version of the BOM.

5.2.1.2. WRITTEN COPY

The written copy must be presented during the discussion part of the Cost and Manufacturing Event. All CRD Written Copies must be handed in one or more ring binders, labelled as follows:



	
Cost Report Documents Written Copy	
University Name:	XXXXXXX
Team Name:	XXXXXXX
FS Easter car Number:	XXX

5.2.2. JUDGING SEQUENCE

At FS Easter Cost and Manufacturing Event Judging will consist only one part for each category, there will be no final.

5.2.3. RESULT REVISION

After the initial evaluation the judges will review all cost reports and given scores. In case of debatable/questionable situations the final decision falls within the competence of the Cost and Manufacturing Event Leader. The same rule applies in case of complaints.

5.3. ENGINEERING DESIGN EVENT

5.3.1. ENGINEERING DESIGN DOCUMENTS

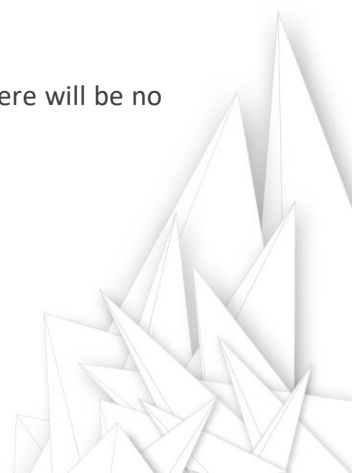
For FS Easter 2022 we do not ask for EDE Documents.

The Engineering Design Documents consist of the following documents, none of them is needed for FS Easter 2022:

- Engineering Design Report (EDR)
- [DV only] Autonomous Design Report (ADR)
- Design Spec Sheet (DSS)

5.3.2. JUDGING SEQUENCE

At FS Easter Engineering Design Judging will consist only one part for each category, there will be no final.



5.3.3. ENGINEERING DESIGN SCORING

NOTE: All categories as mentioned in Rules 2020 Article S3.8.2 will be evaluated, but the score-sheet structure and the content of it will differ from Rules 2020, as it will be prepared by the FS Easter organisers prior to the Event.

6. DYNAMIC EVENTS

As defined in the Rules 2022 Part D.

Only those people can enter the Dynamic Area during the Event, who are wearing long trousers (excluding stretch and nylon pants) and closed shoes on their legs, due to safety reasons. Only 4 team members per team are allowed to enter the Dynamic Area, including the driver. Team members must wear wristbands to enter the Dynamic Area, wristbands are provided by the organisers.

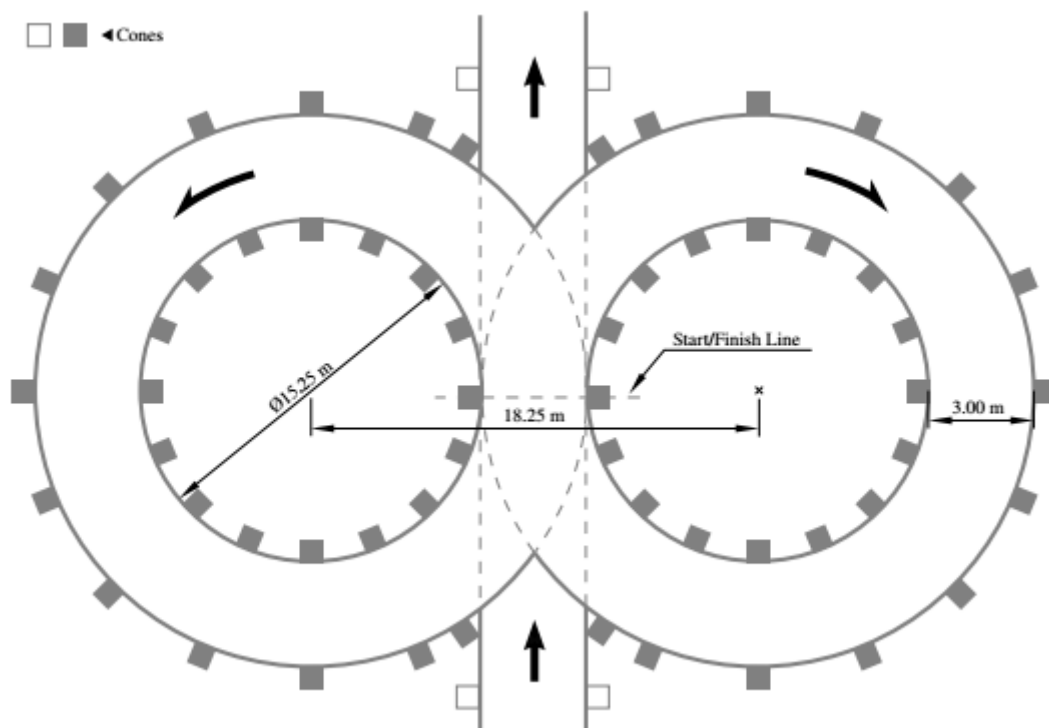
6.1. DYNAMIC EVENTS SCORING

As defined in the Rules 2022 Part D.

6.2. SKIDPAD EVENT

6.2.1. SKIDPAD TRACK LAYOUT

As defined in the Rules 2022 Part D. This means that the skidpad layout will be the original 8 - shape layout.



Track layout for Skidpad Event

6.2.2. SKIDPAD PROCEDURE

As defined in the Rules 2022.

6.3. DRIVERLESS EVENTS

As defined in the Rules 2022, except as it is shown FS Easter Dynamic Event Rules D5.4 section.

6.4. ADDITIONAL FS EASTER-SPECIFIC REMARKS

6.4.1. Pit Rules will be detailed in the Event Handbook.

6.4.2. The schedule for the dynamic events will be shown in the Event Handbook. The last team that is allowed to start the run is the one that stands at the starting line before the scheduled time is over. This team is allowed to finish its runs. Teams standing in the row at closing time are not allowed to start their run. At the entrance of the test tracks, the skidpad, acceleration and autocross track, a CLOSED sign will be placed with the scheduled ending time.

For Driverless Teams, preparation must finish at least 5 minutes before the scheduled closing time. Vehicle must be in a running state 5 minutes before the closing time. These teams are allowed to finish their run, no other teams are allowed to participate.

6.5. SPECIAL ADDITION TO THE RULES 2020

6.5.1. ENDURANCE WAITING QUEUE

Important: In order to have equal and fair conditions during the Endurance event, maximum 2 teams will be on track during the Endurance Event. Therefore the Organisers will maintain a waiting queue of 2 teams. It is the team's responsibility to arrive in the waiting queue before the deadline -which will be announced for each team in the loudspeakers 15 minutes before the deadline. A delay will be penalised with 2 minutes penalty and the team will be able to start only at the end of the endurance event.

NOTE: According to experience of earlier years Formula Student events, it is expected to have sudden need for new teams in the waiting queue in the first section of the endurance event due to early DNFs. Please be prepared to attend the queue on time!

6.5.1.1. SKIDPAD / ACCELERATION WAITING QUEUE

In general, cars standing in the first driver queue have priority compared to the second driver's car. But in case of 2 or more cars standing in both queues, the following rule is applied:



2x first drivers car is enabled to run, after that a second drivers car, and the round starts again.

6.5.2. ENDURANCE TRACK LENGTH

The full length of the Endurance event will be approximately 22 km.

The Endurance and Autocross track will be laid out with cones. In the straights, the distance between two cones will be 8-10 m in driving direction, and in some straights, the track width could be 3-5 m.

6.5.3. DRIVERLESS EVENTS

Driverless Autocross Event takes place on the same track as Driverless Trackdrive Event.

Driverless Autocross and Driverless Trackdrive Event will be the same in the Event Schedule, teams can choose, whether they start their Autocross or their Endurance Run, when entering the track.

Previously collected data must be deleted before the Autocross and Trackdrive Event.

Refuelling for a full tank is needed before starting the Trackdrive Event.

6.5.4. DRIVERLESS CONES

The used cones during the Driverless Events are defined in the "FSG Competition Handbook 2021", section Track Marking. Difference to that, that the cones will not be marked with any additional labels.

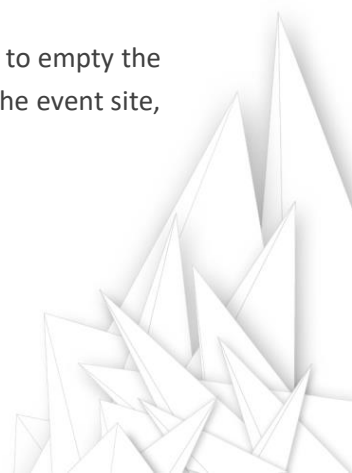
All kind of tracks used by DV vehicles will be surrounded with a huge run - off area.

6.5.5. FUEL

FS Easter offers two types of fuels for teams.

1. Gasoline, RON 100
2. MOL Racing Fuel DRX (ethanol 85%, with 15% RON 106 maingrade gasoline). Details can be found at www.fseast.eu

Teams should come to the FS Easter 2022 Event with empty fuel tank. It is not possible to empty the fuel tank in the FS Easter Pits. Measuring the ethanol ratio of the fuel is not allowed at the event site, further details of the provided fuel can be found at www.fseast.eu



Teams must fill the tank fully at the first time.

In case of the suspension of the endurance, teams are allowed to have the engine heating procedure again. In this case, the fuel must be fueled top before the endurance starts again.

6.5.6. DRIVING BACK TO THE DRIVER CHANGE AREA

Cars, that finish Endurance / Autocross Event or come to the Driver Change Area to change drivers, shall drive to the Driver Change Entrance line with race - speed, without holding up any other racing participants. Cars shall reduce their speed at the Driver Change Area entrance. Drivers, who do not obey this rule (determined on the Race Leader Officials viewpoint), will get a 15 second time penalty in addition to their sum Endurance / Autocross Time.

In case of obvious slowing - down of any race car, when slow speed reduction can be harmful for other cars' racing, officials have the right to show a Meatball flag for the slow car, in order to examine it in the Driver Change Area.

6.5.7. FLAG USAGE IN CASE OF BURNING CARS

In case of track marshals notice major failure with the vehicle, yellow flags and STOP tables will be shown by the organisers. Drivers must stop the vehicle at the side of the track in a safe place.

7. CHANGELOG

June 2022 - Version 1.1

1st release

Version 1.1

Version	Date	Modification	Page
1.0	June 2022	Initial release	-
1.1	June2022	Dates updated, document list updated, minor fixes	



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