



IONIC - 9th
2019 World Final
Wesley College, WA &
Mackay North State High School, QLD

Supplementary Regulations 2020 State Finals

Version 1.2



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**RE-ENGINEERING AUSTRALIA
FOUNDATION**

ENQUIRIES

Re-Engineering Australia Foundation Ltd.
 PO Box 136
 Castle Hill NSW 1765
 P: 61 2 9620 9944
 F: 61 2 8079 0622
 E: contact@rea.org.au
 W: www.rea.org.au

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Re-Engineering Australia Foundation Ltd. PO Box 136 Castle Hill NSW 1765 Australia.

Phone: +61 2 9620 9944. Email: contact@rea.org.au

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ACKNOWLEDGEMENT

In preparing the F1 in Schools™ Australian Technical Rules, certain wording and images have been adopted from the World Final Technical Regulations.

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ALTERATIONS

Re-Engineering Australia Foundation Ltd. reserves the right to alter any specifications and documentation associated with the 'Challenge' without prior notice.

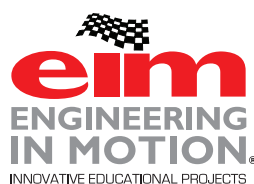


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ARTICLE S1 - PREFACE

Re-Engineering Australia Ltd. have determined that due to the impact of COVID-19 including but not limited to social distancing measures, restriction of large group gatherings, the closure of many state borders and a ban on school excursions, our State Final events will still proceed but under very different arrangements to normal.

This document sets out new conditions relating to the submission of Project Elements - what and when - and how these will be judged.

These Supplementary Regulations apply only to the 2020 F1 in Schools™ State Finals and override any corresponding regulations in the 2020/2021 Season Australian Competition Regulations.

If you feel there is any ambiguity surrounding the following instructions, please contact REA for clarification.

Updates for Version 1.2 (this version) are highlighted in green underlined text.

ARTICLE S2 - State Final Events

In 2020, there will be **NO** physical state final events conducted around Australia for F1 in Schools. Rather, all events will be run virtually with teams required to upload files electronically to an REA Google Drive and post or deliver their Race Cars to the REA office in NSW by a nominated deadline.

There will be **NO** face to face or on-line interviews between teams and judges.

ARTICLE S3 - Timeframes

S3.1 Project Elements for Submission

S3.1.1 Electronic Files

ALL required electronic files as per S4.5 for teams in all states other than Victoria, **MUST** be uploaded via a link provided by REA no later than **11.59pm on Friday, 16 October 2020**.

ALL required electronic files as per S4.5 for teams in Victoria **MUST** be uploaded via a link provided by REA no later than 11.59pm on Friday, 30 October 2020.

S3.1.2 Race Cars

Team Race Cars from all states other than Victoria **MUST** be posted, couriered or hand delivered to the REA NSW office arriving no later than Friday, 16 October 2020.

Race Cars from Victorian teams **MUST** be posted, couriered or hand delivered to the REA NSW office arriving no later than Friday, 30 October 2020.

REA strongly encourages using a **courier service** to deliver cars, due to extended delivery delays with Australia Post. It is the responsibility of the team/teacher to ensure the cars are delivered on-time.

All cars **MUST** be packed in sealed containers and well padded to avoid damage during delivery. REA will **NOT** take responsibility for damage that occurs in-transit to our office but **WILL** attempt to repair any damages in preparation for racing.

Race Cars need to be easily identifiable as belonging to a particular team and teams **SHOULD** identify Car A & Car B¹

S3.2 Judging

S3.2.1 Electronic Project Elements

All team project elements submitted electronically, will be assessed by independent judges between 17 October 2020 and 22 November 2020.

S3.2.2 Race Cars

All racing will be managed and conducted by REA staff over the course of 3-4 days at a time to be determined but somewhere within 17 October 2020 to 22 November 2020. Racing will be conducted at one venue using one track. Racing will be recorded and video footage released to teams.

S3.3 Results

Results will be sent to teams, state by state, commencing 23 November 2020 and planned completion no later than 27 November 2020.

¹ Not applicable to the Cadet Class

ARTICLE S4 - Project Elements for Submission

Around two weeks prior to the submission deadline date, teams will be emailed a unique link to a google drive folder that they will be required to upload their electronic data to. Teams **WILL** require a Google account to facilitate this.

S4.1 General

- Uploaded files **MUST** be a team's final versions they are submitting for judging.
- **ALL** files **MUST** be clearly labelled [in accordance with the specified convention to be published](#).
- Team videos will take the place of interviews and presentations normally conducted at physical events.
- The content of the videos **SHOULD** be aligned with the relevant scorecard criteria.
- Teams are **NOT** to wear a team uniform in any of the recorded assessable content. See S5.5 for more information.

S4.2 File Formats & Size

- Videos **MUST** be submitted as separate **AVI** or **MP4** files. [Penalties apply](#).
- Documentation **MUST** be submitted as separate **PDF** files [no larger than 100mb](#). [Penalties apply](#).
- CAD files **MUST** be submitted as **STEP** files. [Penalties apply](#).
- Renders **MUST** be submitted as high quality [\(maximum 10mb each\)](#) **PICTURE FILES**. [Penalties apply](#).

S4.3 Video Detailed Information

S4.3.2.1 Engineering Videos

- Each topic (CAD, Manufacturing & Testing) **MUST** be submitted as separate videos
- 'Testing' video is optional
- The combined total time for all three videos is a maximum 12 minutes.
E.g. 3 x 4 minute videos
- [The maximum resolution for each video is not to exceed 1080P](#)

S4.3.2.2 Trade Display Video

- No physical display is to form part of a team's assessable video content. See S5.4 for more information.
- The maximum total time of the submitted video content is 10 minutes
- [The maximum resolution for each video is not to exceed 1080P](#)

S4.3.2.3 Verbal Presentation Video

- The maximum total time of the submitted video content is 10 minutes
- [The maximum resolution for each video is not to exceed 1080P](#)
- [One take no editing. Fixed camera, simulating judges position. See S5.9.2 for more information.](#)

S4.4 Penalties

S4.4.1 Late Submission

If Project Elements are not received by Re-Engineering Australia Foundation [or Turnitin](#) on or before the required deadline, **those elements will NOT be eligible for assessment**, [no exceptions](#).

S4.4.2 Video [Timing, Resolution & Format](#)

A penalty of **20 points SHALL** be applied for [each infringement for each](#) judging category video that:

- Exceeds the maximum time as per S4.3.
- [Exceeds the maximum resolution as per S4.3.](#)
- [Does not comply with the required file format as per S4.2](#)

S4.4.3 [File Size & Document Formats](#)

[A penalty of 20 points will be applied to ANY submitted documents for each judging category that:](#)

- [Exceed the maximum files size as per S4.2.](#)
- [Are not submitted in the correct file format.](#)

S4.4.4 Wearing of Team Uniform

A penalty of **20 points SHALL** be applied for each judging category video where any team member wears a uniform in violation of S4.1

S4.5 Project Elements Submission Checklist

The following team Project Elements **MUST** be received on or before [the published time and](#) date, as per S3.1.

	Project Element	Submission Details	Judging Criteria	
<input type="checkbox"/>	1 x Engineering Portfolio	Electronic: PDF format Maximum 100mb file size Submitted to Turnitin	<ul style="list-style-type: none"> Engineering: Manufacturing Engineering: Design Process Portfolio: Design 	
<input type="checkbox"/>	1 x Engineering Compliance Booklet	Electronic: PDF format Maximum 100mb file size Submitted to REA	<ul style="list-style-type: none"> Engineering: Specifications Engineering: CAD 	
<input type="checkbox"/>	1 x Enterprise Portfolio	Electronic: PDF format Maximum 100mb file size Submitted to Turnitin	<ul style="list-style-type: none"> Portfolio: Project Management Portfolio: Design Marketing: Branding 	
<input type="checkbox"/>	Optional Testing Document	Electronic: PDF format Submitted to REA	<ul style="list-style-type: none"> Engineering CAD 	
<input type="checkbox"/>	Design Development Brief	Electronic: PDF Submitted to REA	<ul style="list-style-type: none"> Marketing: Trade Display 	
	Optional Verbal Presentation Handout	Electronic: PDF Submitted to REA	<ul style="list-style-type: none"> Verbal Presentation 	
<input type="checkbox"/>	Car Finishing Form	Electronic: PDF Submitted to REA	<ul style="list-style-type: none"> For use by REA 	
<input type="checkbox"/>	Media Consent Form	Electronic: PDF Submitted to REA	<ul style="list-style-type: none"> For use by REA 	
<input type="checkbox"/>	Student Code of Conduct Form	Electronic: PDF Submitted to REA	<ul style="list-style-type: none"> For use by REA 	
<input type="checkbox"/>	High Quality Renders	Electronic: Picture Files Submitted to REA	<ul style="list-style-type: none"> For use by REA 	
<input type="checkbox"/>	ALL Engineering CAD Files	Electronic: STEP Files Submitted to REA	<ul style="list-style-type: none"> Engineering CAD For use by REA 	
<input type="checkbox"/>	ALL Trade Display CAD Files	Electronic: STEP Files Submitted to REA	<ul style="list-style-type: none"> For use by REA 	
<input type="checkbox"/>	Engineering CAD Video	Electronic: AVI or MP4 Maximum resolution 1080P Submitted to REA	Combined total of Max 12 Min <ul style="list-style-type: none"> Engineering CAD 	
<input type="checkbox"/>	Engineering Manufacturing Video	Electronic: AVI or MP4 Maximum resolution 1080P Submitted to REA		<ul style="list-style-type: none"> Engineering: Manufacturing
<input type="checkbox"/>	Optional Engineering Testing Video	Electronic: AVI or MP4 Maximum resolution 1080P Submitted to REA		<ul style="list-style-type: none"> Engineering CAD Engineering Design Process
<input type="checkbox"/>	Trade Display Video	Electronic: AVI or MP4 Maximum resolution 1080P Submitted to REA	Max 10 Min	<ul style="list-style-type: none"> Marketing: Branding & Trade Display
<input type="checkbox"/>	Verbal Presentation Video	Electronic: AVI or MP4 Maximum resolution 1080P Submitted to REA	Max 10 Min	<ul style="list-style-type: none"> Verbal Presentation: Technique & Content
<input type="checkbox"/>	2 ² x Race Cars complete with sticker decals & tether guides & optional spare components	Couriered or hand delivered Submitted to REA		<ul style="list-style-type: none"> Racing

[2](#) 1 car only for Cadet Class

ARTICLE S5 - General Advice

S5.1 Regional Finals (QLD & NSW)

Registered teams in QLD and NSW will still be required to compete at a Regional Final first, to qualify for participation at the State Final level. Check <https://rea.org.au/events-calendar-and-information/> for more information. If a Regional Final is not listed near you, contact REA for more information.

S5.2 Team Registration Deadline

The deadline for **ALL** Team Registrations has been extended until 31 August 2020. However, earlier registration would be appreciated so REA can assist Regional Hub Coordinators in QLD and NSW and plan for judging of State Final assets.

S5.3 Car Sticker Decals

Once the Team Registration deadline has expired, REA will post to schools the required car sticker decals for each registered team.

S5.4 Trade Displays

Teams are **NOT** to build a physical Trade Display or manufacture any of its contents as part of their evidence submitted for assessment. Rather, teams are required to produce a 3D model of their final trade display which simulates exactly what would be presented to judges in a physical form. Teams should carefully read the updated 2020 Trade Display scorecard.

Note: Packaging Restriction criteria will **NOT** be assessed for 2020 State Finals and Development Class restrictions apply.

S5.5 Team Uniforms

Teams are **NOT** to manufacture Team Uniforms for the 2020 State Finals. Rather, teams are to 'propose' a Team Uniform within their Enterprise Portfolio. Judges will be advised to **ONLY** assess a 'proposed' team uniform from within the Enterprise Portfolio. Team members appearing in person in their videos, are advised to wear their School Uniform when recording videos for assessment. Penalties apply as per S4.4.4.

A school sports uniform, or plain shirts without printing and embroidery will be acceptable.

S5.6 Scrutineering

Experienced REA staff and independent scrutineers will gather at the REA office in NSW to undertake this process from 17 October to 6 November 2020.

S5.7 Rectification

The process of Car Rectification will **NOT** be an option for State Finals in 2020.

S5.8 Car Breakages

Cars that break during racing, will be repaired by REA staff or other experienced helpers. The 10 minute time limit will still apply. It is anticipated that repairs will be undertaken using Super Glue. Use of team supplied spare components will be considered during this time. If a car cannot be restored back to its original state, it will DNS for all future races.

S5.9 Video Content

As with any assessable content, teams SHOULD ensure they structure video content around the descriptor information that exists in the advanced range for each criteria in the relevant scorecards.

Teams should ensure they do not exceed the maximum time length and maintain a constant volume throughout.

Teams are strongly encouraged to watch their video to iron out any issues before submitting for assessment.

S5.9.1 Engineering & Trade Display Videos

Teams have a unique opportunity to record a shared desktop to include a walk through of their CAD design/s and other document content whilst providing an explanation or commentary via a voice overlay and/or superimposing a team member into the footage presenting the information. Video editing is permitted.

Verbal Presentation Videos

A team's Verbal Presentation video **MUST** be representative of a standard delivery at a physical competition event. For example, **ALL** team members standing together as if they were presenting to judges in the same room.

The following conditions apply:

- The video **MUST** be recorded as one continuous take with no editing permitted using a fixed camera simulating the judge's position.
- **ALL** team members, from head to feet, are to be present in **every** frame of the video.
- Media presentations if used **SHOULD** be projected from a screen or large TV monitor with team members arranged to either side so the the content clearly viewable by judges. Content that is not clearly visible when the video is viewed for judging purposes will obviously result in reduced marks.
- An optional handout document may be provided for judging and uploaded to the REA Google Drive link.

S5.10 Plagiarism

From 2020, plagiarism detection software 'Turnitin' will be used to check the authenticity of content in all teams' state and national final portfolios.

Content in team portfolios found to have been plagiarised, will not be assessed as part of the judging process resulting in zero marks for the relevant criteria.

State Final teams **ONLY** will be given free access to this software to upload their portfolios and make required changes based on a report of results provided by Turnitin. Multiple uploads can be made to check the authenticity of content in team portfolios.

Judges **WILL** be provided with a **FINAL** report generated by Turnitin based on the content teams upload after the submission deadline.

Teams need to be aware of the following conditions for uploading portfolios to Turnitin.

- File format **MUST** be PDF as required by REA.
- File size must **NOT** exceed 100mb
- PDF files **MUST** be editable and not a 'scanned' PDF.

Notes

1. PDF documents must contain text to be submitted. PDF files containing only images of text will be rejected during the upload attempt. To determine if a document contains actual text, copy and paste a section or all of the text into a plain-text editor such as Microsoft Notepad or Apple TextEdit. If no text is copied over, the selection is not actual text.
2. Teams are required to include the new Turnitin logo within their project as per the conditions for Level 2 Corporate Partner Logos outlined in the Australian Competition Regulations. This logo is available for download from the REA website at <https://rea.org.au/f1-in-schools/resources/>

S5.11 New Portfolio Arrangements

S5.11.1 Increased Page Limits

Due to the new requirement for state and national team portfolios to be self-checked through Turnitin's authenticity software, it is anticipated teams will need to better address the requirement for referencing content to avoid penalties.

Commencing from the 2020 State Final competition for **ALL** states, teams using the '**ENDNOTE**' method of referencing **ONLY** will be provided with one extra page in their Engineering and Enterprise Portfolios to facilitate this arrangement. The only content on this extra page is to be the reference list.

S5.11.1.1 Development Class (using Endnote method): 8 pages

S5.11.1.2 Professional Class (using Endnote method): 12 pages

S5.11.2 Submission of Portfolios for Judging

Commencing from the 2020 State Final competition for **ALL** states, teams will be required to upload their **FINAL** Engineering and Enterprise Portfolios direct to Turnitin by the same published deadline as per S3.1.1.

It is expected that teams will be uploading draft portfolios well before the deadline to check the document authenticity before uploading their final version.

To facilitate access to Turnitin, REA will contact teams to request a team email. One **ONLY** valid email **MUST** be provided for each team.

FINAL portfolios submitted by the deadline will be downloaded by REA and used by judges for assessment purposes.

Note: Submitted portfolios are time-stamped by Turnitin. Any team found to have uploaded a portfolio after the published deadline will incur a penalty as per S4.4.1.



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