

Student Formula Japan 2016  
Local Rules Information: Number 3 (Revised)  
Issued: January 21, 2016 Revised: March 23,2016

The purpose of this document is to inform all participating teams of the local rules that shall apply to Student Formula Japan 2016 (SFJ). Any additional local rules that become necessary shall be posted on the JSAE website as they become available. These local rules are valid for Student Formula Japan 2016 only.

**J2016-37-2 Design Spec Sheet Format added.**

Student Formula Japan 2016, Rules Committee

**For both Japanese and overseas teams**

**J2016-28 Screening of Documents Submitted Prior to the Competition(refer to rule 11,12 of 2016 SFJ)**

Pre-screening for Design Report, Spec Sheet, Cost Reports and Business Logic Case shall be performed based on the documents submitted in advance. In the event that the pre-screening procedure determines that the team may not participate in both the Design Cost and Presentation events to be held during the Competition, the team might be disqualified from participating in the Competition altogether.

**J2016-29 Document Screening of Cost Report (refer to rule 11,12 of 2016 SFJ)**

Even if the Cost Report is submitted prior to the due date, the pre-screening procedure may determine the Report to be unacceptable for the Cost Report session to be held during the Competition. In this event, 100 points shall be deducted from the Cost score. Furthermore, 100 points shall be deducted from the Cost score of teams that are unable to participate in the Cost Report session during the Competition.

**J2016-30 Submission Items for Cost Report (refer to rule S-4.9 of 2016 FSAE®)**

The Cost Report shall consist of the items below, which shall be submitted in both electronic data (CD-ROM) and printed formats.

(1) BOM

(2) One (or more) pages for each assembly including the assembly number, the parts in the assembly, the materials, processes, and fasteners making up the assembly, and the tooling for the assembly.

(3) One (or more) pages for each part including the part number, and the materials, processes, fasteners, and tooling for creating the part (However, items in the materials table corresponding exactly to a part may be omitted).

Item (1) shall be created using the 2016\_FSAE\_eBOM.xls format that can be downloaded from the FSAE® website. Its file name shall be as follows: Carnumber\_schoolname\_SFJ\_CR\_BOM.xls.

Items (2) and (3) shall be created using the FCA\_Inputs.xls format that can be downloaded from the FSAE® website. Any file name may be used. The electronic data file shall be submitted in the xls Format.

Both Excel files shall be included on the CD-ROM.

(4) Corroborative Materials

The electronic data file shall be submitted in the pdf format with the following name:

Carnumber\_schoolname\_SFJ\_CR\_Supplement.pdf.

In addition to the items described in rule S4.9.3 of 2016 FSAE®, the supporting documentation shall also include the following information.

- a. Three-view drawings or three-view photographs of the frame and main parts comprising the frame
- b. The material composition, structure, and manufacturing method of composite materials
- c. Wiring diagrams

**J2016-31 Requests for Additional Items to Cost Tables (refer to rule S-4.14 of 2016 FSAE®)**

The first version of the official Cost Tables for the SFJ shall be released at the beginning of April 2016. In the event that a “purchased” part, fabrication method, or the like adopted for the vehicle is not included in these Cost Tables, the team shall submit an Add Item Request via the Cost Table Add Item Request Q&A page of the Q&A system. The completed Add Item Request Excel file (to be specified separately) and corroborative materials shall be compressed using the .zip or .lzh format and submitted by 14:00, May 13, 2016, Japan time. The final version of the Cost Tables incorporating this information shall be issued at the beginning of June, and their details shall be frozen at this time.

In the event that cost information shown in the final JSAE Cost Tables differs from that in the FSAE® Cost Tables, the JSAE version shall be given priority, even if the FSAE® Cost Tables feature an additional part.

If the Add Item Request could not be completed before preparation of the Cost Report and parts not listed in the Cost Tables need to be entered in the report, the team shall appraise the cost of these items and identify them clearly in the Cost Report (e.g., through the use of colored cells). The Cost Inspection Committee shall re-evaluate the Cost Report and deduct the points appropriately.

**J2016-32 Addenda to the Cost Report (refer to rule S-4.17.1 and APPENDIX S-5 of 2016 FSAE®)**

Addenda reflecting design changes implemented after the submission of the original Cost Report shall be formatted in accordance with the template created for the Student Formula Japan (posted on the JSAE website). Addenda submitted in any other format shall not be accepted.

**For both Japanese and Overseas, EV Class Only**

**J2016-33 Organized List of EV Systems and Assemblies (refer to APPENDIX S-3 of 2016 FSAE®)**

In the cost report, dedicated EV parts shall be categorized following the list of system 4) (Electrical – EL) as described below.

4) Electrical – EL

- Motor, Tractive
- Battery, Tractive
- Accumulator Container
- Wiring HV
- Conduit
- Electronic Control Unit (ECU)
- Chassis Control Module (CCM)
- Accumulator Management System(AMS) (Battery Management System (BMS))
- Motor Controller (MC)
- Power Distribution Module (PDM)
- Tractive System Active Light (TSAL)

- Isolation Monitoring Device (IMD)

**J2016-34 Submitted Items for EV Cost Report Review (refer to rule S-4.22 of 2016 FSAE®)**

On the day of the cost report review, if requested by a Cost Report Judge, photographs of dedicated EV parts that are not visible due to enclosure within a sealed structure or the like shall be submitted as evidence of the cost calculation for those parts.

Teams unable to submit photographs on request shall be penalized a maximum of 20 points.

**J2016-35 Exceptional item on Cost Report (refer to rule S-4.23 of 2016 FSAE®, Local Rule J2016-33)**

Ready-To-Drive-Sound (Tractive System Active Sound (TTAS)) is not applicable for Cost Report.

**For both Japanese and overseas teams, both ICV and EV**

**J2016-36 Document Screening of Design Report and Design Spec Sheet (refer to rule S-6.9 of 2016 FSAE®)**

Even if the Design Report and Design Spec Sheet are submitted prior to the due date, the pre-screening procedure may determine these items to be unacceptable for the Design session to be held during the Competition. In this case, the maximum Design score shall be restricted to 20 points.

**J2016-37 Documents to be Submitted for Design Judging (refer to rule S-6.2.2 of 2016 FSAE®)**

Note that the font size on the text pages of the Design Report shall be not smaller than 8-point in the desktop publishing (DTP) software for both English and Japanese characters. The margins at the top, bottom, left, and right of each page shall be 10 mm or more.

The following dimensions shall be included on the three-view drawings as a minimum requirement: Overall length, overall width, overall height, wheelbase, front and rear tread, minimum ground clearance.

**J2016-37-2 Design Spec Sheet Format (refer to rule S-6.5.3 and S-6.5.4 of 2016 FSAE®)**

Design Spec Sheets must be submitted electronically in Microsoft Excel® Format (\*.xlsx file). The format of the Spec Sheet MUST NOT be altered.

Similar to the Design Report, the Design Spec Sheet file must be named as follows:  
carnumber\_schoolname\_specs.xlsx using the SFJ assigned car number and the complete school name,  
e.g. 001\_University of SAE\_specs.xlsx

**J2016-38 Notification of Application of Alternative Frame (AF) Rules (refer to rules AF-1.4 and AF1.6 of 2016 FSAE®)**

Teams planning to build a car based on the AF rules shall submit a Notice of Intent via the team page on the website, February 26, 2016.

**J2016-39 Document Screening of Business Logic Case (refer to rule 11, 12 of SFJ 2016 and S-5.1.5, S-5.2.2 and S-5.6.3 of 2016 FSAE®)**

Even if the Business Logic Case is submitted prior to the due date, the pre-screening procedure may determine this item to be unacceptable for the presentation session to be held during the Competition. In this case, the presentation score is Minus 75 points. ~~If the judges find something incomplete, they deduct the points. However, the combined subtraction due to the degree of completion and due to the late submission~~

~~shall not exceed Minus 50 points in total~~

No presentation session caused by your problems score Minus 75 points.

**J2016-40 Documents to be Submitted for Presentation Judging (refer to rule S-3.3 of 2016 FSAE®)**

Download the format of Business Logic Case for Student Formula Japan, fill out and submit it through the team page. Any other formats of that are unacceptable for the presentation session in this competition.

**J2016-41 Formats of Documents to be Submitted (refer to rule 11 of 2016 SFJ)**

Unless stipulated in the local rules, the formats of documents to be submitted shall be based on those stated in the 2016 FSAE® rules, and no alteration to the original formats shall be permitted.

Cost Report:	Refer to local rule J2016-30
Addenda to the Cost Report:	Refer to local rule J2016-32
Design Report:	Refer to local rule J2016-37
Business Logic Case:	Refer to local rule J2016-40

Team pages on website: <http://www.jsae.or.jp/formula/en/>

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