

**FORMULA SAE-A 2009**  
**ADDENDUM TO FORMULA SAE 2009 RULES**

Revisions & Clarifications versus the US 2009 Formula SAE Rules follow:

US Rule	Page	Variation
4.2	8	<p><b>Student Status</b> - Delete US words and add the following:</p> <p>Team members must be enrolled as degree seeking undergraduate or graduate students in a tertiary education college or university. Team members who have completed their degree/studies up to 7 months prior to the competition remain eligible to participate.</p>
4.3	9	<p><b>Society Membership</b> - Delete US words and add the following:</p> <p>Formula SAE-A is open to teams from Australia/NZ Universities &amp; TAFE Colleges and some overseas teams.</p> <p>All members of Australia/NZ teams must be members of SAE-A. Team members of international teams must be members of their local SAE Society. If no local society membership is available, they may register to become members of SAE-A in order to compete at the event.</p> <p>Proof of membership, such as membership card is required at the competition.</p> <p>Students can join SAE-A online at: <a href="http://www.sae-a.com.au">www.sae-a.com.au</a>.</p>
4.7	9	<p><b>Medical Insurance</b> - Delete US words and add the following:</p> <p>Individual medical insurance coverage per the US wording is obviously desirable but government versus private coverage varies significantly around the world. Accordingly, foreign teams should ensure that they are adequately covered by their domestic insurance and carry adequate travel medical and accident insurance to cover their time in Australia</p>
4.8.4	9.	<p>The US Rule 4.8.4 for 2009 is NOT applicable for the Australian event and is replaced by the equivalent Rule from 2007.</p> <p><b>Onsite Registration of Individual Team members– Document Copies Required</b></p> <p>All participating team members <b>must</b>, at the time of onsite registration, provide photo copies of the following documents and emergency contact data to be filed with registration officials:</p> <p>1) Photographic Identification: Drivers must present a valid, government issued, highway driver's licence containing a photograph. Non-drivers may substitute alternate photographic identification, such as a university ID or a passport. (cont'd.)</p>

		<p>2) Emergency Contact Information: Each student must include the name and phone number of contact on their emergency details.</p> <p>3) Proof of Society Membership</p>
<b>5</b>	<b>10</b>	<p><b>Faculty Advisor</b> Additional note to US words.</p> <p>To avoid duplication, ensure proper identification of teams and requests, all contact between teams and SAE-A officials prior to the event, should, in the first instance, be via the Faculty Adviser or reviewed by the Advisor prior to submission. The adviser can often help with prior knowledge and interpretations and ensure maximum efficiency in contacts; they may also liaise with other Faculty Advisers.</p>
<b>7.3</b>	<b>12</b>	<p><b>Registration Limits</b></p> <p>Formula SAE-A is open to teams from Australia/NZ Universities &amp; TAFE Colleges and some overseas teams. There will be a limit of 30 teams for the event. If the number of entries exceeds the maximum available event number, then a ballot or other method will be used to reduce the number of overseas entries within the available number of entrants. If a reduction is required to the number of entries, this decision will be announced to the affected overseas teams as soon as possible after the entry closure date.</p>
<b>7.5</b>	<b>13</b>	<p><b>Formula SAE Australia Registration.</b></p> <p>When teams arrive at the FSAE-A venue and register, both the team Captain and the Faculty Advisor must be present and be able to identify themselves as being those nominated in those roles at initial online registration.</p>
<b>7.6.2</b>	<b>13</b>	<p><b>Registration Fees</b></p> <p>Registration fees will not be refunded after the registration cut off date of July 18, 2009. Early advice of withdrawal prior to that date may, at the discretion of the organisers, result in some refund of fees paid.</p>
<b>7.7.1</b>	<b>13</b>	<p><b>Withdrawals</b></p> <p>Any teams which have registered and subsequently find that they will not be able to attend the competition are requested to officially withdraw and notify SAE-A <b>at the earliest possible date</b>. Likewise, any team which has indicated potential entry, but not yet registered, is also requested to advise they will not be registering at the earliest possible date (as soon as such decision is reached).</p>

8.4.2	14	<p><b>Rules Questions</b></p> <p>Teams entering only Formula SAE-Australasia: Send questions to: SAE-A Rules Committee Email: formulasae@sae-a.com.au</p>
3.8	19	<p><b>Structural Equivalency and Structural Equivalency Form (SEF)</b></p> <p>As all teams must submit an SEF (even to confirm “no variance”) they must also consider Front Bulkhead support, as various questionable configurations have been observed at the events. Teams must confirm adequate bulkhead support in accordance with one of the “OK” configurations shown on the US Formula SAE Frequently Asked Questions website. Any revisions to the tube material, size or section from the base case, require an SEF to show equivalent crush strength for the configuration of the team’s vehicle. See further under <b>paragraph 3.19</b>. A sketch should be included with the SEF to show the basic structure and configurations of the various tubes in a steel space frame vehicle even if the team believes equivalency calculations are not required.</p>
3.8.5 (c)	19	<p><b>Acknowledgement</b></p> <p>SEF’s submitted for vehicles entered into the Australasian event will be acknowledged within 2 working days of receipt.</p>
3.9.5	20	<p><b>95th percentile male template</b></p> <p>To ensure adequate driver protection for varying driving positions and to ensure a common approach to driver packaging, if the requirements of 3.9.3 are not met with the 95th percentile male template, 35 points will be deducted from the team’s Design Event score and the car <b>will not be allowed</b> to compete in any dynamic events until modified to ensure compliance.</p>
3.19.3	24	<p><b>Front Bulkhead Support</b></p> <p>Per 3.8 above, the configuration for the bulkhead support must be able to be correlated to one of the defined “OK” configurations. If there is any doubt, the team should submit an SEF to show equivalency or superiority of crush strength to the base case, which is assumed to be a simple rectangle (formed by the front roll hoop, front bulkhead and upper and lower members) with a node-to-node triangulation tube forming two internal triangles.</p>
7.4	33	<p><b>Brake Light</b></p>
7.4.3		<p>Additional clarification paragraph to assist track safety/fair play in the Endurance Event. Any vehicle with a brake light illuminated continuously or under non-braking conditions, will be black flagged.</p>

9.1	37	<p><b>Fuel</b></p> <p>The primary fuel supplied for the event will be Unleaded Petrol with a Research Octane Number (RON) of 98.</p> <p>As a Trial, Ethanol E85 will also be provided as an alternative fuel at the 2009 event. Any teams wishing to compete using E85 <b>must</b> advise their intention at the time of submitting their entry registration. Note: E85 formulation and characteristics may vary between locations and between the fuel obtained by teams during development and that supplied at the event. All of the US Rules relating to Ethanol (Restrictors, etc) will apply.</p>
15 15.2	44	<p><b>Transponders</b></p> <p>Transponders will be used for timing at Formula SAE-A and will be supplied at the event by the organisers.</p>
16.3	45	<p><b>Logos/Decals</b></p> <p>The decals of the four consortium companies (Ford, Holden, Mitsubishi and Toyota) and SAE-A must be displayed on the front of the vehicle, symmetric about the centreline of the vehicle. The host consortium company (Toyota - 2009) is to be uppermost and SAE-A lowest. The decals will be supplied to the teams well before the competition as well as advice for the relative positioning of all five decals. Teams must ensure clear space is reserved along the central area of the nose cone for these decals.</p>
17.1.a	46	<p><b>Safety Helmets</b></p> <p>In addition to the US or British Standards, helmets conforming to Australian Standard AS 1698 or CAMS Schedule D are allowed.</p>
3  3.14.A	53  61	<p><b>Article 3 - Cost &amp; Manufacturing Event.</b></p> <p>As the vehicles are now costed using tables and “generic dollars” the exact US rules apply; exchange rate calculations are no longer required.</p> <p><b>Format:</b> The electronic copy of the BOM must use Microsoft Excel on a single IBM compatible 3.5” disc or a CD ROM. It should NOT include copies of receipts or any back-up material.</p>
5.2.4	67	<p><b>Design Report</b></p> <p>For the Australasian event, teams will be assigned to judging groups on a sequential allocation based on prior year results and new teams allocated to balance the level of technical features reviewed.</p>

5.8	68	<p><b>Design Event</b>  <b>Penalty for Late Submission or Non-Submission</b> - delete US words and add the following;</p> <p><b>Non-Submission;</b> Teams that fail to submit a Design Report and a Design Spec Sheet will not compete in the design event, and will receive zero (0) points for design.  <b>Late Submission:</b> Teams that do not submit a Design Report and a Design Spec Sheet by the specified deadline will receive a 20 point penalty and will not be eligible to compete in the design final.  <b>Note:</b> Confirmation of receipt will be given by email.</p>
5.9	68	<p><b>Penalty for Unsatisfactory Submissions</b> - delete US words and add the following;</p> <p>At the discretion of the judges, teams that submit a Design Report or a Design Spec Sheet which is deemed to be unsatisfactory, may have their points score reduced and will be excluded from the Design Final.</p>
Article 4	76	<p><b>Driver Limitations</b></p> <p>A minimum of 5 drivers must be used. The Australasian Event will consist of two heats for the Endurance and Fuel Economy event.</p>
Article 7 Article 8	81 84	<p><b>Autocross Event</b>  <b>Endurance &amp; Fuel Economy</b></p> <p>The track will generally be similar to the US rules but teams will be advised of the final layout and direction of travel following registration. Teams will have the opportunity to walk the track with the Clerk of Course prior to the start of the event. Min. track width will be 3.5m</p>
8.7.1	84	<p>The Event will be run in two heats - one in the morning and one in the afternoon. No driver will be allowed to drive in both heats.  The starting order will be the same for both heats</p>
8.12.2	86	<p>The number of vehicles on the track simultaneously will generally not exceed 4.</p>
9.3 9.4	91	<p><b>Information and Command Flags.</b></p> <p>The specific flags to be used at the Australasian Event will be clarified at Team and Driver Briefings at the Event.</p>
Articles 10 & 13	92/94	<p><b>Trash Clean Up &amp; General Pit Rules</b></p> <p>A reimbursable bond of \$A 500 cash must be posted by each team at registration at the event, against site/pit damage and clean up. Any costs incurred beyond this amount, will be billed to the team.  (cont'd)</p>

		<p>No fluids are to be drained within the pit area except into approved receptacles and no fuels/oil are to be drained in the pit area without prior approval from the organisers and with appropriate fire protection present.</p> <p>No open vehicle fluid containers are allowed in the pit area.</p>
<b>Article 11</b>	<b>92</b>	<p><b>General Rules</b></p> <p>The following general clarification is given to cover all events regarding <b>External Equipment and Work on Vehicles</b></p> <p>All vehicles must be capable of start, stop, restart and idle in <b>all dynamic events</b>, without external assistance. This reinforces the requirement that any items essential to satisfactory vehicle operation are included in the cost and design reports for the overall event.</p> <p>Accordingly, for all dynamic events, from the time the vehicle is deemed "ready to run", and has moved forward under its own power into a "run area" where no crew members are allowed, it cannot be worked on and no auxiliary batteries or cooling fans are allowed, until the event is completed (including all heats required to be run consecutively or with some delay under officials' direction).</p> <p>Additionally, to ensure that the line for the start is not disrupted, and safe operation or clear movement of other vehicles is not impaired, the above requirements will also apply for vehicles entering the holding queue for an event, <b>unless specific clearance for any work, or use of auxiliary equipment, has been obtained from the officials controlling that event.</b></p>

**ATTACHMENTS: APPENDIX PDA - 1 Priority Dates for the Formula SAE Australasia Event.**

## APPENDIX PDA - 1

# Action Deadlines for 2009 Formula SAE Australasia

See [www.sae-a.com.au/fsae/index.htm](http://www.sae-a.com.au/fsae/index.htm) for rules specific to FSAE-A

All submissions must be received at the SAE-A Office by 5:00 PM on the defined date. Note that due to time zone differences, teams may need to submit ahead of this time. Early submission of all items is highly recommended. Email confirmation of receipt will be given for all submissions within two business days of receipt. Note that the US Rules for late receipt apply except where otherwise noted earlier in this Addendum.

### 1. Registration - July 31, 2009

Registration forms may be obtained by:

Email from the SAE-A Office: [formulasae@sae-a.com.au](mailto:formulasae@sae-a.com.au)

On-line from SAE-A: [www.sae-a.com.au/fsae/index.htm](http://www.sae-a.com.au/fsae/index.htm)

### 2. Safety Structure Equivalency Form - September 11, 2009

See Appendix B-1 of US Rules

Submit on line in Adobe Acrobat.

Formula SAE-A Technical Committee

[formulasae@sae-a.com.au](mailto:formulasae@sae-a.com.au)

### 3. Impact Attenuator Data Requirements - October 2, 2009

Submit on line in Adobe Acrobat.

Formula SAE-A Technical Committee

[formulasae@sae-a.com.au](mailto:formulasae@sae-a.com.au)

### 4. Design Report & Design Spec Sheet - October 2, 2009

Submit as Adobe Acrobat format

E-mail: [formulasae@sae-a.com.au](mailto:formulasae@sae-a.com.au)

### 5. Cost Report must be received by - Electronic Version October 16, 2009 - Hard Copy Version October 23, 2009

Post: Formula SAE-A Technical Committee

SAE-Australasia

Level 2, Suite B – 70 Dorcas Street

Southbank 3006

Australia

E-mail: [formulasae@sae-a.com.au](mailto:formulasae@sae-a.com.au)

**Rules Enquiries concerning Formula SAE Australasia only** Send via email to:  
Rules Committee. Email: [formulasae@sae-a.com.au](mailto:formulasae@sae-a.com.au)