

2017 INFORMATION KIT
PART B: TRY-ATHLON

RACV



ENERGY BREAKTHROUGH

23-26 NOVEMBER 2017 | MARYBOROUGH, VICTORIA

POWERED BY IMAGINATION

THE PREMIER SCIENCE, TECHNOLOGY, ENGINEERING AND MATHS, ACTIVE LEARNING PROGRAM

A PARTNERSHIP BETWEEN



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TRY-ATHLON

WEDNESDAY 22nd NOVEMBER

4.00 pm – 5.00pm Registration open
Location: Administration Centre

All teams should have arrived and registered by 12noon on Thursday. Display & Presentation and Design & Construction schedules will be prepared with this in mind.

THURSDAY 23rd NOVEMBER

All Day Teams arrive and set up camp

9.00 am Registration Opens
Location: Administration Centre

9.00 am – 5.30 pm Scrutineering, Design and Construction
Location: Scrutineering Area

9.00 am – 5.30 pm Display and Presentation
Location: Display & Presentation marquees

6.00 pm – 6.30 pm Team Managers and Marshals Meeting
Location: Hospitality Marquee, RACV Track

FRIDAY 24th NOVEMBER

	9.00am – 11.00am	11am – 1pm	2pm – 4pm
Obstacle Rally	A Class	Open Class	B/C Class
Time Trial	B/C Class	A Class	Open Class
Marshals	As in Marshal Roster		

8:45 pm Assembly for Night Practice
Location: Pit Lane, CFA Track
Note: Try-athlon teams will be sharing pit spaces (not tools and resources) with HPV A teams during this Practice Session.

9.00 – 10.30 pm Night Practice
Location: CFA Track
Note: Marshals from schools will be allocated Corners during this Practice.

SATURDAY 25th NOVEMBER

1.30 pm Assembly of Starting Grid
Location: Front Straight, CFA Track

2.00 pm – 10.00 pm Try-athlon Endurance
Location: CFA Track
Marshals: Schools will be allocated Pit Entry & Pit Exit times during the Endurance.

11.00 pm Try-athlon Presentation Ceremony
Location: CFA Track Stage

SUNDAY 26th NOVEMBER

All Day No activities, Pack up and depart.

TEAM NUMBERS – TRY-ATHLON

Notes:

- Teams with “*” indicates a 15 lap penalty.
- Where possible, team numbers indicate pit numbers.
- Team numbers & pits 1 – 40 are located on the Front Straight.

No.	Team Name	School	Class
101	Dismantler	Maryborough Education Centre	B/C
102	Gollum	Ballarat Christian College	B/C
103	Tootgarook Green	Tootgarook Primary School	A
104	Tootgarook Yellow	Tootgarook Primary School	A
105	Wodda Spud	Nathalia Secondary College	OPEN
106	GT	Mornington Primary School	A
107	Grand Slam	Mornington Primary School	A
108	SEAM’N HOT	Toorak College	All Female
109	STEAM RACER	Toorak College	All Female
110	STEAM DREAM	Toorak College	All Female
111	Army	Beaconsfield Primary School	A
112	Air Force	Beaconsfield Upper Primary School	OPEN
113	DARK HORSES	EDEC HPV Team	All Female
114	GREMLINS	EDEC HPV Team	B/C
115	THE ANT HILL MOB	EDEC HPV Team	B/C
116	Tow Mater	Emerald Primary	A
117	Time Lapse	Emerald Primary	A
118	Road Runner	Emerald Primary	OPEN
119	The Mighty Walgett Flood	Walgett Community College	B/C
120	Team K-Boom	Kilberry Valley Primary School	A
121	Kingsley Komets	Kingsley Park Primary School	A
122	Team 1	Flemington Primary School	A
123	Team 2	Flemington Primary School	A
124	Nitro Fusion	Yarrawonga College P-12	A
125	Goonies	Yarrawonga College p-12	B/C
126	Gleneagles Drift	Gleneagles Secondary	OPEN
127	Lethal Weapon	Gleneagles Secondary	B/C
128	Mechanical Fury	Kyabram P-12 College	OPEN
131	Speed Blazers	Cockatoo Primary School	A
132	Lucknow Lightning	Lucknow Primary School	OPEN
133	Creepers	Koroit Creek Primary School	A
134	Hickety Split	Koroit Creek Primary School	A
135	Jaffa	St Paul's AGS (Warragul)	OPEN
136	Apollo	St.Margaret’s School and Berwick Grammar	A

137	Cosmic Rocket	St.Margaret's School and Berwick Grammar	A
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No.	Team Name	School	Class
138	Shooting Star	St.Margaret's School and Berwick Grammar	A
139	Wolverine	Seymour College	B/C
140	Beast	Seymour College	B/C
141	Magneto	Seymour College	OPEN
142	Chains on Fire - Red	Rossbourne School	OPEN
143	Chains on Fire - Yellow	Rossbourne School	OPEN
144	New -Cents	New Gisborne Primary	A
145	Storm	North Geelong Secondary College	OPEN
146	Smiglewood	St Mary's Primary School	A
147	Rusty Bucket	Yuille Park Community College	OPEN
148	Nitro	Yuille Park Community College	OPEN *
149	Wasp 2	Moorak Primary/Yahl Primary	A
150	Wasp	Moorak Primary/Yahl Primary	B/C
151	Storm	Beaconsfield Primary School	A
152	Ironman	Beaconsfield Primary School	OPEN
153	Fresh Rubber	Natte/Amphi Primary Schools	A
154	Oacc1	Overnewton Anglican Community College	OPEN
157	Tyabb Cobras	Tyabb Primary School	A
158	Tyabb Pythons	Tyabb Primary School	A
159	Mighty Saints	St. Michael and John's Primary School	A
160	Full Potential	St Augustine's Maryborough	A
161	Flippers	Kooweerup Secondary College	OPEN *

PIT AREAS

- Where possible, pit numbers are the same as the team number.
- All pit sites are numbered.
- Team numbers with a “3” or “4” prefix indicate where a school with three teams will use a total of two pit spaces. Eg. Team “310” shares pit space number 10 with team number 10.
- All pit sites must be set-up as per the direction of Event Officials and changes may be required at the Officials discretion.
- All pit sites are approximately 2.8 m – 3 m wide by 2 metres deep.
- All teams must leave approximately 1 m clearance area in front of their pit site for rider changeovers and for other teams to have line of sight of the track and pit lane.
- There is no existing shelter in the pit areas. Teams are encouraged to erect a small tent, or arrange to share a tent with another team.
- During the event there is restricted access to the pit area.
- No motor vehicles are allowed in the TRYathlon pit areas.
- If the surface of your pit area is hard, that is concrete and asphalt, securing tents will require water or sand filled weights rather than pegs.
- Pit areas should NOT be set up too early. 90 mins prior to your scheduled Practice sessions should be adequate.
- HPV Primary teams and TRYathlon teams will be required to share pit spaces for the TRYathlon Practice session on Friday evening. Your assistance and patience with this is appreciated.
- HPV Primary teams will also need to dismantle and clear their pit spaces quickly after the conclusion of the HPV Primary trial to allow time for the TRYathlon teams to set-up for their Endurance trial.

TRY-ATHLON RULES AND GUIDELINES

The Try-athlon category was created in 2001 for first time teams who wanted a taste of the Energy Breakthrough. Since its creation the category has quickly grown in popularity and competitiveness. Vehicles are constructed to the same specifications as the Human Powered Vehicle specifications.

Please note: Due to the hairpins in Try-athlon Time Trial and Obstacle courses, Try-athlon teams are **strongly encouraged** to set up their vehicle with a **maximum** turning circle of 8 metres.

Assessment

Teams participate in the **Display & Presentation**, **Design & Construction** sections, and the three physical tests:

- Time Trial,
- Obstacle Rally, and
- an 8 Hour Endurance Trial.

Section	Points
Display & Presentation	20
Design & Construction	20
Time trial	15
Obstacle	15
Endurance Trial	30
Total	100

Challenge 1: Time Trial

Location: RACV Track – Back Straight (near Pit 55)

Circuit Length: Approx. 600 metres per lap

Event Format: One round – 8 Riders

- There will be three or four teams per heat, each from the same class.
- Riders will each complete one lap of the Time Trial circuit before changing over in the allocated pit areas under the direction of the track marshals.
- For Try-athlon A teams with 9 or 10 riders, 8 riders will participate in this challenge. It is a requirement that those riders omitted from this challenge will participate in the Obstacle Rally.

Points Allocation for Time Trial

- Points will be allocated on the total team time recorded.
That is: 15 points to the team recording the fastest time.

$$\text{Time Trial Score} = 15 - \left[\left(\frac{X - Y}{Y} \right) \times 15 \right]$$

- Where Y = fastest team time recorded & X = team's own time

Challenge 2: Obstacle Rally

Venue: RACV Track – Front Straight (Near RACV Stage)

Circuit Length: Approx. 600 metres per lap

Event Format: One round – 8 Riders.

- Each team will complete the Obstacle Rally, which will incorporate several stations or control challenges.
- There will also be a ramp & rumble strip which the riders will be required to navigate safely.
- Riders will each complete one lap of the Obstacle Rally circuit before changing over in the allocated pit areas under the direction of the track marshals.
- For TRYathlon A teams with 9 or 10 riders, 8 riders will participate in this challenge. It is a requirement that those riders omitted from this challenge will participate in the Time Trial.

Points Allocation for Obstacle Rally

$$\text{Obstacle Rally Score} = 15 - \left[\left(\frac{X - Y}{Y} \right) \times 15 \right] - \text{Penalty}$$

- Where Y = fastest team time recorded (in seconds) & X = teams own time (in seconds).

Obstacle Rally – Penalties & Infringements:

Infringement	Penalty Points
Contact with hay bale or barrier, loose seat belt and/or helmet,	0.2
Careless driving, contact with other vehicle, no seat belt, no helmet, incorrect pit change over	0.5
Very dangerous driving	1

Challenge 3: Endurance Trial

Venue: CFA Track

Circuit Length: 1.1 km per lap

Duration: 8 hours

- Teams will compete over eight hour and each rider is encouraged to complete at least 30 minutes riding.
- Teams assemble as directed and the trial will commence with a rolling start behind the RACV vehicle.
- For Try-athlon A teams with 9 or 10 riders, all riders may participate in this challenge.

Points Allocation - Endurance Trial

- Points will be allocated on distance completed by the team. That is, 30 points to the team recording most laps.
- Other finishers: (X/Y) multiplied by 30 = points
- Where Y = highest number of laps recorded & X = team's number of laps.

Endurance Trial Penalties & Infringements – See HPV & EEV Trial Regulations.

Presentations:

All teams are all welcome to join the Presentations held behind the Holden Stage at the conclusion of the Endurance Trial on the Saturday evening

Display and Presentation												
TIME	Panel 9			Panel 10			Panel 11			Panel 12		
9.30 am	9A	23	Jells Park Primary School	10A	339	Seymour College	11A	144	New Gisborne Primary	12A	157	Tyabb Primary School
10.00 am	9B	89	St. Augustine's Primary School	10B	67	Mt Eliza Primary School	11B	120	Kilberry Valley Primary School	12B	117	Emerald Primary School
11.00 am	9A	9	Morwell Park Primary School	10A	85	Kennington Primary School	11A	131	Cockatoo Primary School	12A	111	Beaconsfield Upper Primary School
11.30 am	9B	87	Berwick Primary School	10B	90	St. Augustine's Primary School	11B	116	Emerald Primary School	12B	104	Tootgarook Primary School
12 noon	9A	66	Mt Eliza Primary School	10A	14	Carisbrook Primary School	11A	151	Beaconsfield Primary School	12A	153	Natte/Amphi Primary Schools
1.30 pm	9B	370	St Therese's Primary School	10B	387	Berwick Primary School	11B	136	St Margarets School and Berwick Grammar School	12B	146	St Mary's Primary School
2.00 pm	9A	15	Carisbrook Primary School	10A	60	Lloyd Street Primary School	11A	159	St Michael and John's Primary School		122	Flemington Primary School
2.30 pm	9B	44	Rowellyn Park Primary School	10B	78	Strathfieldsaye Primary School	11B	121	Kingsley Park Primary School	12B	137	St Margarets School and Berwick Grammar School
3.30 pm	9A	79	Strathfieldsaye Primary School	10A	74	The Peninsula School	11A	124	Yarrowonga College P-12	12A	107	Mornington Primary School
4.00 pm	9B	60	Lloyd Street Primary School	10B	###	#N/A	11B	123	Flemington Primary School	12B	133	Kororoit Creek Primary School
4.30 pm	9A	#N/A	#N/A	10A	###	#N/A	11A	#N/A	#N/A	12A	#N/A	#N/A

Thursday 23rd Nov 2017

Display and Presentation												
TIME	Panel 13			Panel 14			Panel 15			Panel 16		
9.30 am	13A	103	Tootgarook Primary School	14A	139	Seymour College	15A	#N/A	#N/A	16A	#N/A	#N/A
10.00 am	13B	113	EDEC HPV Team	14B	101	Maryborough Education Centre	15B	#N/A	#N/A	16B	112	Beaconsfield Upper Primary School
11.00 am	13A	160	St. Augustine's Primary School	14A	114	EDEC HPV Team	15A	140	Seymour College	16A	152	Beaconsfield Primary School
11.30 am	13B	134	Kororoit Creek Primary School	14B	127	Gleneagles Secondary	15B	158	Tyabb Primary School	16B	161	Koo Wee Rup Secondary College
12 noon	13A	138	St Margarets School and Berwick Grammar School	14A	118	Emerald Primary School	15A	115	EDEC HPV Team	16A	105	Nathalia Secondary College
1.30 pm	13B	108	Toorak College	14B	102	Ballarat Christian College	15B	126	Gleneagles Secondary	16B	141	Seymour College
2.00 pm	13A	106	Mornington Primary School	14A	145	North Geelong Secondary College	15A	135	St Paul's AGS (Warragul)	16A	128	Kyabram P-12 College
2.30 pm	13B	109	Toorak College	14B	119	Walgett Community College High School	15B	147	Yuille Park Community College	16B	143	Rossbourne School
3.30 pm	13A	110	Toorak College	14A	148	Yuille Park Community College	15A	142	Rossbourne School	16A	132	Lucknow Primary School
4.00 pm	13B	125	Yarrawonga College P-12	14B	149	Moorak Primary School/Yahl Primary School	15B	154	Overnewton Anglican Community College	16B	#N/A	#N/A

Thursday 23rd Nov 2017

Design and Construction								
TIME								
8:30 AM	1	Maryborough Education Centre	89	St. Augustine's Primary School	116	Emerald Primary School	372	Derinya Primary School
	2	Maryborough Education Centre	90	St. Augustine's Primary School	117	Emerald Primary School	73	Derinya Primary School
	101	Maryborough Education Centre	160	St. Augustine's Primary School	118	Emerald Primary School	158	Tyabb Primary School
	65	Bonbeach Primary School	27	Overport Primary School	28	Overport Primary School	152	Beaconsfield Primary School
9:00 AM	25	Lyndhurst Primary School	33	Laurimar Primary School	22	Jells Park Primary School	131	Cockatoo Primary School
	26	Lyndhurst Primary School	333	Laurimar Primary School	23	Jells Park Primary School	111	Beaconsfield Upper Primary School
9:30 AM	62	Leongatha Primary School	46	Kingswood Primary School	10	Dingley Primary School	104	Tootgarook Primary School
	63	Leongatha Primary School	9	Morwell Park Primary School	11	Dingley Primary School	127	Gleneagles Secondary
10:00 AM	30	Willmott Park Primary School	339	Seymour College	6	Haileybury College	52	Caledonian Primary School
	31	Willmott Park Primary School	306	Haileybury College	51	Caledonian Primary School	105	Nathalia Secondary College
10:30 AM	41	Gembrook Primary School	48	Epping Primary School	7	Haileybury College	144	New Gisborne Primary
	20	Garfield Primary School	72	Derinya Primary School	8	Morwell Park Primary School	111	Beaconsfield Upper Primary School

Thursday 23rd Nov 2017

11:00 AM	12	Talbot Primary School	18	Holy Trinity Lutheran School	5	Frankston PS	47	Berwick Primary School
	16	Avoca Primary School	19	Holy Trinity Lutheran School	387	Berwick Primary School	159	St Michael and John's Primary School
	112	Beaconsfield Upper PS						
11:30 PM	45	Terang College	56	Horsham West and Haven Primary School	39	Seymour College	157	Tyabb Primary School
	53	Clunes Primary School	57	Horsham West and Haven Primary School	40	Seymour College	103	Tootgarook Primary School
12 noon	42	Gembrook Primary School	32	Laurimar Primary School	84	Kennington Primary School	120	Kilberry Valley Primary School
	21	Garfield Primary School	139	Seymour College	85	Kennington Primary School	140	Seymour College
12:30 PM	49	Yuille Park Community College	12	Talbot Primary School	70	St Therese's Primary School	87	Berwick Primary School
	50	Yuille Park Community College	13	Talbot Primary School	71	St Therese's Primary School	134	Kororoit Creek Primary School
1:00 PM	37	Avenel Primary School	86	Lightning Reef Primary School	78	Strathfieldsaye Primary School	138	St Margarets School and Berwick Grammar School
	38	Avenel Primary School	77	St Patrick's Primary School	79	Strathfieldsaye Primary School	151	Beaconsfield Primary School
1:30 PM	68	Niddrie Primary School	58	Frankston Heights Primary School	43	Rowellyn Park Primary School	67	Mt Eliza Primary School
	69	Niddrie Primary School	59	Frankston Heights Primary School	66	Mt Eliza Primary School	107	Mornington Primary School

Thursday 23rd Nov 2017

2:00 PM	24	Cranbourne West Primary School	17	Pleasant Street Primary School	The Peninsula School	113	EDEC HPV Team
	46	Kingswood Primary School	88	Moreland Primary School	Diamond Creek Primary School	114	EDEC HPV Team
2:30 PM	81	Lockwood Primary School	34	Maiden Gully Primary School	Natte/Amphi Primary Schools	133	Kororoit Creek Primary School
	80	Lockwood Primary School	35	Maiden Gully Primary School	EDEC HPV Team	102	Ballarat Christian College
3:00 PM	54	Canadian Lead Primary School	36	Golden Square Primary School	Carisbrook Primary School	121	Kingsley Park Primary School
	55	Canadian Lead Primary School	370	St Therese's Primary School	Carisbrook Primary School	126	Gleneagles Secondary
3:30 PM	75	Tooradin Primary School	106	Mornington Primary School	Lloyd Street Primary School	136	St Margarets School and Berwick Grammar School
	76	Tooradin Primary School	145	North Geelong Secondary College	Lloyd Street Primary School	137	St Margarets School and Berwick Grammar School
4:00 PM	82	Eaglehawk North Primary School	64	Benton Junior College	Toorak College	108	Toorak College
	83	Eaglehawk North Primary School	44	Rowellyn Park Primary School	Toorak College	146	St Mary's Primary School

Thursday 23rd Nov 2017

4:30 PM	124	Yarrowonga College P-12	149	Moorak Primary School/Yahl Primary School	148	Yuille Park Community College	119	Walgett Community College High School
	125	Yarrowonga College P-12	135	St Paul's AGS (Warragul)	147	Yuille Park Community College	132	Lucknow Primary School
5:00 PM	3	White Hills Primary School	122	Flemington Primary School	154	Overnewton Anglican Community College	142	Rossbourne School
	4	White Hills Primary School	123	Flemington Primary School	128	Kyabram P-12 College	143	Rossbourne School
5:30 PM	141	Seymour College	161	Koo Wee Rup Secondary College	#N/A	#N/A	#N/A	#N/A
	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

NOTE: *These Scrutineering/Design & Construction times have been allocated to reduce the need for queuing for long periods. Please present for your Scrutineering / Design & Construction assessment within the period allocated*

TRY-ATHLON

TIME TRIAL

Friday 24th November 9 am – 11 am

RACV Track – near New Track Section

HEAT 1				
Pit 1.	B/C (Up to Year 12)	102	Ballarat Christian College	Gollum
Pit 2.	B/C (Up to Year 12)	127	Gleneagles Secondary	Team 2
Pit 3.	B/C (Up to Year 12)	140	Seymour College	Beast
HEAT 2				
Pit 1.	B/C (Up to Year 12)	150	Moorak PS / Yahl PS	Wasp
Pit 2.	B/C (Up to Year 12)	119	Walgett Community College	The Mighty Walgett Flood
Pit 3.	B/C (Up to Year 12)	125	Yarrawonga College P-12	Goonies
HEAT 3				
Pit 1.	B/C (Up to Year 12)	114	EDEC HPV Team	GREMLINS
Pit 2.	B/C (Up to Year 12)	139	Seymour College	Wolverine
Pit 3.	B/C (Up to Year 12)	101	Maryborough Education Centre	Dismantler
HEAT 4				
Pit 1.	All Female	113	EDEC HPV Team	DARK HORSES
Pit 2.	All Female	108	Toorak College	STEAM'N HOT
Pit 3.	All Female	109	Toorak College	STEAM RACER
Pit 4.	All Female	110	Toorak College	STEAM DREAM

TRY-ATHLON

TIME TRIAL

Friday 24th November 11 am – 1 pm | RACV Track – New Track Section

	Class	No	SCHOOL	TEAM NAME
HEAT 1				
Pit 1.	A	136	St Margaret's School & Berwick Grammar School	Apollo
Pit 2.	A	122	Flemington Primary School	Team 1
Pit 3.	A	151	Beaconsfield Primary School	Storm
Pit 4.	A	111	Beaconsfield Upper Primary School	Army
HEAT 2				
Pit 1.	A	121	Kingsley Park Primary School	Kingsley Komets
Pit 2.	A	133	Kororoit Creek Primary School	Team 1
Pit 3.	A	120	Kilberry Valley Primary School	Team 1
Pit 4.	A	146	St Mary's Primary School	Sminglewood
HEAT 3				
Pit 1.	A	134	Kororoit Creek Primary School	Team 2
Pit 2.	A	149	Moorak Primary School/Yahl Primary School	Wasp 2
Pit 3.	A	159	St Michael and John's Primary School	Team 1
HEAT 4				
Pit 1.	A	123	Flemington Primary School	Team 2
Pit 2.	A	106	Mornington Primary School	GT
Pit 3.	A	137	St Margarets School and Berwick Grammar School	Cosmic Rocket
Pit 4.	A	131	Cockatoo Primary School	Speed Blazers
HEAT 5				
Pit 1.	A	144	New Gisborne Primary	New-Cents
Pit 2.	A	117	Emerald Primary School	Team 2
Pit 3.	A	157	Tyabb Primary School	Tyabb Cobras
Pit 4.	A	103	Tootgarook Primary School	Tootgarook Green
HEAT 6				
Pit 1.	A	107	Mornington Primary School	Grand Slam
Pit 2.	A	116	Emerald Primary School	Team 1
Pit 3.	A	138	St Margarets School and Berwick Grammar School	Shooting Star
Pit 4.	A	124	Yarrawonga College P-12	Nitro Fusion
HEAT 7				
Pit 1.	A	153	Natte/Amphi Primary Schools	Fresh Rubber
Pit 2.	A	104	Tootgarook Primary School	Tootgarook Yellow
Pit 3.	A	158	Tyabb Primary School	Tyabb Pythons
Pit 4.	A	160	St. Augustine's Primary School	Full Potential

TRY-ATHLON

TIME TRIAL

Friday 24th November 2 – 4 pm | RACV Track – (New Track Section)

HEAT 1				
Pit 1.	OPEN	115	EDEC HPV Team	THE ANT HILL MOB
Pit 2.	OPEN	126	Gleneagles Secondary	Team 1
Pit 3.	OPEN	154	Overnewton Anglican Community College	Oacc1
HEAT 2				
Pit 1.	OPEN	152	Beaconsfield Primary School	Ironman
Pit 2.	OPEN	112	Beaconsfield Upper Primary School	Air Force
Pit 3.	OPEN	118	Emerald Primary School	Team 3
Pit 4.	OPEN	132	Lucknow Primary School	Lucknow Lightning
HEAT 3				
Pit 1.	OPEN	105	Nathalia Secondary College	Wodda Spud
Pit 2.	OPEN	145	North Geelong Secondary College	Storm
Pit 3.	OPEN	128	Kyabram P-12 College	Mechanical Fury
HEAT 4				
Pit 1.	OPEN	142	Rossbourne School	Chains on Fire -Red
Pit 2.	OPEN	141	Seymour College	Magneto
Pit 3.	OPEN	147	Yuille Park Community College	YPCC3
HEAT 5				
Pit 1.	OPEN	143	Rossbourne School	Chains on Fire - Yellow
Pit 2.	OPEN	135	St Paul's AGS (Warragul)	Jaffa
Pit 3.	OPEN	148	Yuille Park Community College	YPCC4
Pit 4.	OPEN	161	Kooweerup SC	Flippers

TRY-ATHLON

OBSTACLE EVENT

Friday 24th November 9 am to 11 am | RACV Track near Stage

HEAT	CLASS	No	SCHOOL	TEAM NAME
HEAT 1				
Pit 1.	A	136	St Margarets School and Berwick Grammar School	Apollo
Pit 2.	A	122	Flemington Primary School	Team 1
Pit 3.	A	151	Beaconsfield Primary School	Storm
Pit 4.	A	111	Beaconsfield Upper Primary School	Army
HEAT 2				
Pit 1.	A	121	Kingsley Park Primary School	Kingsley Komets
Pit 2.	A	133	Kororoit Creek Primary School	Team 1
Pit 3.	A	120	Kilberry Valley Primary School	Team 1
Pit 4.	A	146	St Mary's Primary School	Sminglewood
HEAT 3				
Pit 1.	A	134	Kororoit Creek Primary School	Team 2
Pit 2.	A	149	Moorak Primary School/Yahl Primary School	Wasp 2
Pit 3.	A	159	St Michael and John's Primary School	Team 1
HEAT 4				
Pit 1.	A	123	Flemington Primary School	Team 2
Pit 2.	A	106	Mornington Primary School	GT
Pit 3.	A	137	St Margarets School and Berwick Grammar School	Cosmic Rocket
Pit 4.	A	131	Cockatoo Primary School	Speed Blazers
HEAT 5				
Pit 1.	A	144	New Gisborne Primary	New-Cents
Pit 2.	A	117	Emerald Primary School	Team 2
Pit 3.	A	157	Tyabb Primary School	Tyabb Cobras
Pit 4.	A	103	Tootgarook Primary School	Tootgarook Green
HEAT 6				
Pit 1.	A	107	Mornington Primary School	Grand Slam
Pit 2.	A	116	Emerald Primary School	Team 1
Pit 3.	A	138	St Margarets School and Berwick Grammar School	Shooting Star
Pit 4.	A	124	Yarrawonga College P-12	Nitro Fusion
HEAT 7				
Pit 1.	A	153	Natte/Amphi Primary Schools	Fresh Rubber
Pit 2.	A	104	Tootgarook Primary School	Tootgarook Yellow
Pit 3.	A	158	Tyabb Primary School	Tyabb Pythons
Pit 4.	A	160	St. Augustine's Primary School	Full Potential

TRY-ATHLON

OBSTACLE EVENT

Friday 24th November 11 am to 2 pm | RACV Track near Stage

Heat	Class	No.	School	Team Name
HEAT 1				
Pit 1.	OPEN	115	EDEC HPV Team	THE ANT HILL MOB
Pit 2.	OPEN	126	Gleneagles Secondary	Team 1
Pit 3.	OPEN	154	Overnewton Anglican Community College	Oacc1
HEAT 2				
Pit 1.	OPEN	152	Beaconsfield Primary School	Ironman
Pit 2.	OPEN	112	Beaconsfield Upper Primary School	Air Force
Pit 3.	OPEN	118	Emerald Primary School	Team 3
Pit 4.	OPEN	132	Lucknow Primary School	Lucknow Lightning
HEAT 3				
Pit 1.	OPEN	105	Nathalia Secondary College	Wodda Spud
Pit 2.	OPEN	145	North Geelong Secondary College	Storm
Pit 3.	OPEN	128	Kyabram P-12 College	Mechanical Fury
HEAT 4				
Pit 1.	OPEN	142	Rossbourne School	Chains on Fire -Red
Pit 2.	OPEN	141	Seymour College	Magneto
Pit 3.	OPEN	147	Yuille Park Community College	YPCC3
HEAT 5				
Pit 1.	OPEN	143	Rossbourne School	Chains on Fire - Yellow
Pit 2.	OPEN	135	St Paul's AGS (Warragul)	Jaffa
Pit 3.	OPEN	148	Yuille Park Community College	YPCC4
Pit 4.	OPEN	161	Kooweerup SC	Flippers

TRY-ATHLON

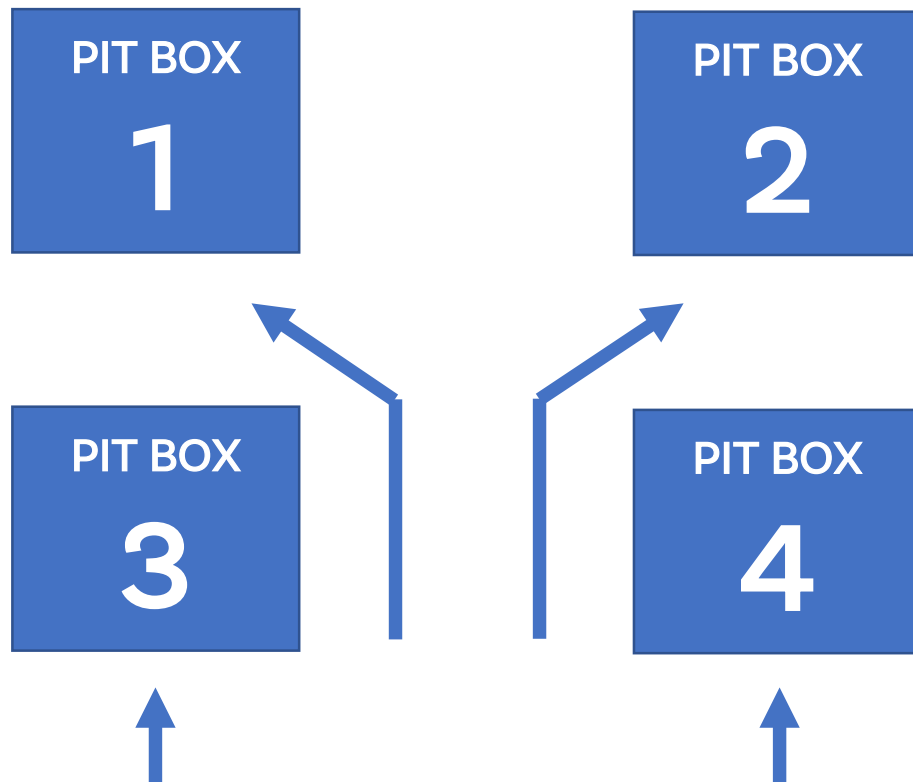
OBSTACLE EVENT

Friday 24th November 2 pm | RACV Track near Stage

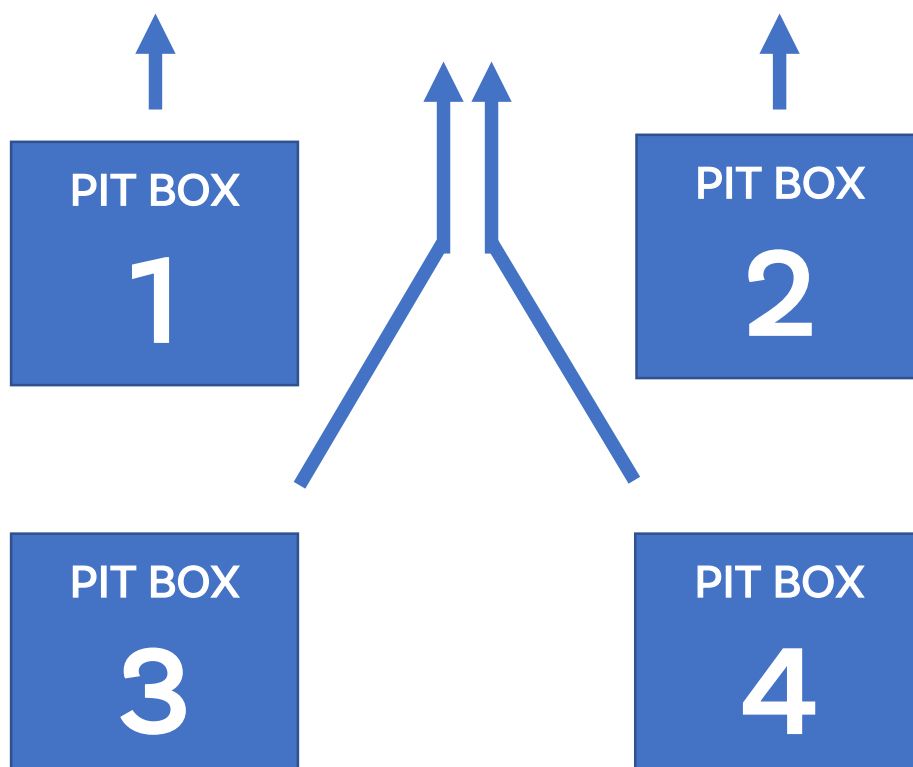
Heat	Class	No.	School	Team Name
HEAT 1				
Pit 1.	B/C (Up to Year 12)	102	Ballarat Christian College	Gollum
Pit 2.	B/C (Up to Year 12)	127	Gleneagles Secondary	Team 2
Pit 3.	B/C (Up to Year 12)	140	Seymour College	Beast
HEAT 2				
Pit 1.	B/C (Up to Year 12)	150	Moorak PS / Yahl PPS	Wasp
Pit 2.	B/C (Up to Year 12)	119	Walgett Community College	The Mighty Walgett Flood
Pit 3.	B/C (Up to Year 12)	125	Yarrawonga College P-12	Goonies
HEAT 3				
Pit 1.	B/C (Up to Year 12)	114	EDEC HPV Team	GREMLINS
Pit 2.	B/C (Up to Year 12)	139	Seymour College	Wolverine
Pit 3.	B/C (Up to Year 12)	101	Maryborough Education Centre	Dismantler
HEAT 4				
Pit 1.	All Female	113	EDEC HPV Team	DARK HORSES
Pit 2.	All Female	108	Toorak College	STEAM'N HOT
Pit 3.	All Female	109	Toorak College	STEAM RACER
Pit 4.	All Female	110	Toorak College	STEAM DREAM

TRY-ATHLON TIME TRIAL AND ENDURANCE PIT PROCEDURES

Pit Entry:



Pit Exit:



HPV, EEV AND TRY-ATHLON ENDURANCE TRIAL REGULATIONS:

1. Spirit of Competition

The RACV Energy Breakthrough Trial presents a unique opportunity for students to extend their learning experience beyond the boundaries of formal education. The following competition regulations have been framed so that the efforts and experiences of all participants are maximised, to be bound only by the constraints of safety and the spirit of healthy, but friendly competition.

2. Eligibility

2.1 Make-up of Teams

Teams will consist of the following numbers of competitors:

- Human Powered Vehicle Primary - 6 minimum – 10 maximum
- Human Powered Vehicle Secondary - 6 minimum – 8 maximum

2.1.1 Gender balance

- Except for Open Class teams and all female teams, a minimum of 50 per cent of the competitors in any one team shall be female.
- Gender ratio in Open Class teams is free.

2.2 Registered Riders

- Only registered team riders shall take part in the trial, however rider changes can be made up to the start of the endurance trial. (See Section 2.6).
- Emergency riders are encouraged to participate in the practice session to ensure they are familiar with the track and the vehicle.

2.3 Team Member Participation

- Team managers must ensure that every nominated team member participates as a driver.
- Managers are required to keep a log of rider track time, which can be checked by officials investigating incidents.

2.4 Age of Drivers

- Drivers of Energy Efficient Vehicles shall be at least 14 years of age, unless special prior approval is provided by organisers.

2.5 Identification

- All competitors must have official identification, which must be shown on request during the trial.

2.6 Rider Substitution

- Sick or injured riders may be replaced prior to the start of the trial by a registered reserve rider of the same gender. Riders will not be substituted after the start of the trial.
- This substitution will require the identification wristband of the replaced rider to be handed to the Administration Centre and a new identification issued to the reserve rider.

3. Rider Attire

3.1 Fit and Adjustment

- All vehicle occupants shall wear the following safety attire correctly fitted and adjusted at all times the vehicle is on the track during practice and the trial.

3.1.1 Helmet

- For human powered vehicles and pedal/electric hybrid vehicles, minimum requirement is a bicycle helmet approved to AS 2063 or AS 1698.

3.1.2 Eye Protection

- Shatterproof glasses, goggles or a helmet visor must be worn at all times.
- Provision must be made for the lights on period overnight.
- Full faced helmets must have the visor down at all times unless the rider is wearing other eye protection.

3.1.3 Gloves

- Strong material BMX or motor-cross type gloves preferred.

3.1.4 Shoes

- Full foot coverage, sandals not permitted.

3.1.5 MP3 players

- The use of MP3 players or similar music/entertainment devices by riders is NOT permitted during trial or practice sessions.

3.1.6 Video cameras

- Small video cameras (eg. GoPro) are allowed as long as they are not attached to the rider's helmet and do not pose any safety risk. Camera's must not be mounted to the outside of the vehicle silhouette when viewed from the front

3.1.7 Clothing

Human Powered Vehicles:

- Minimum coverage of shoulders, upper body and mid-thigh e.g.: shorts and T-shirt; or cycling knicks and jersey.
- **HPV Note:** Sleeveless triathlon skin suits, sleeveless cycling jerseys, sleeveless t-shirts, tank tops or singlets are not permissible.

4. Scrutineering

4.1 Compulsory

Scrutineering is compulsory for all vehicles and teams, to ensure compliance with vehicle specifications and safety attire requirements.

4.2 Before track

Before entering onto the track for practice, all vehicles must be scrutineered for safety. RACV Scrutineers can refuse permission to enter the track for any safety reason.

4.3 Subsequent scrutineering

All vehicles will also be inspected at random during the trial for operation of safety items or when the vehicle is involved in a track incident. (See Section 7.11).

5. Traffic Lights and Signals

All competitors shall understand the meaning of the following traffic signals/flag signals:

Green

- The track is clear for competition.

Yellow Light or Flag

- **A sign of danger or track obstruction in the vicinity of the marshal point.**
- Riders are required to slow and pass the point of danger at a significantly reduced speed using extreme caution.
- It is an offence to overtake a vehicle at the corner displaying a yellow flag or light.
- Riders must not resume competition until they are well clear of the danger.

Red

- **An indication of extreme danger.**
- All vehicles shall come to an **immediate** stop.
- Racing has ceased.
- Riders must follow the directions of the Clerk of Course and flag marshals.

Blue

- Is an indicator that a faster vehicle is positioned close to you. Competitors shown the blue flag must hold their line to allow overtaking.

6. Start, Finish and Break

6.1 Pre-Race Briefing

All Team Managers must attend the pre-race briefing by the Clerk of Course and Trial Coordinator.

6.2 Lap Counters

It is the Team Manager's responsibility to ensure that:

- a transponder is picked up and correctly fitted to the vehicle
- the transponder is working at all times
- the transponder is returned to the Administration Centre at the end of the trial.

6.3 Grid Assembly

- The Clerk of Course, in conjunction with the event committee, will allocate and advertise starting grid positions following the practice session.
- Vehicles will be called to the starting grid assembly area at least 30 minutes prior to the official start.
- If a vehicle is not on the grid within 15 minutes of the scheduled start time, officials reserve the right to place the vehicle at the rear of the grid.
-

6.4 Trial Start

The trial will be started with the drop of the National flag.

6.5 Trial Finish

Trials will conclude with the display of the black and white chequered flag,

- 8 hours after the start.

7. Track Conduct

7.1 Speed Limit

Speedometers are mandatory and ALL competing vehicles shall observe a maximum speed of 60 kilometres per hour during practice and the trial, and 15 kph in pit lane.

Vehicles exceeding the speed limit (60 km per hour) will have a penalty applied (see Section 11.3).

7.2 Blue Line

A blue line has been painted on the track.

Vehicles must keep to the **left** of the track, on the inside of the BLUE line, unless overtaking another vehicle.

7.3 Seatbelts

All vehicle occupants shall wear a correctly adjusted seatbelt or harness when on the track during practice and the trial.

See section 4.6.3 of the Vehicle Specifications regarding correct adjustment of seat belts.

7.4 Injured Riders

Track marshals and RACV officials monitor the trial and where necessary will call for assistance from St John and the Rural Ambulance Service to attend to injured riders.

7.5 Right of Way

Competing vehicles have right of way over disabled vehicles that need to be recovered and returned to the pit area.

7.6 Direction of Travel

Under no circumstances is a vehicle to be driven or pushed on the track in the opposite direction to racing.

7.7 Overtaking

Vehicles should overtake on the outside, to the right of the vehicle being overtaken.

Riders must not change lanes without checking their mirrors to make sure it is safe to do so.

It is the responsibility of the overtaking (faster) vehicle to ensure that the overtaking move is carried out without endangering other competitors.

Cutting in, deliberate blocking or leaving insufficient clearance will be penalised.

7.8 Vehicle Recovery

If a vehicle breaks down, the corner marshals will report the incident and the team will be informed.

It is the responsibility of the team to recover their vehicle.

If a team is unable to safely recover their vehicle they can request assistance from the RACV.

7.9 Vehicle Lighting

Front and rear lights as required by vehicle specifications shall be illuminated during the hours of darkness as directed by the Clerk of Course.

Riders must stop in the pits as soon as possible to rectify any inoperable or insecure light.

Teams are encouraged to operate their lights for the entire duration of the trial if it is practical to do so.

7.10 Lighting Batteries

Batteries used solely for lighting may be charged and/or recharged and/or replaced as required.

7.11 Track Incidents

Vehicles involved in major on track collisions, crashes or rollovers must be tagged by officials and are required to proceed directly to the pits for inspection and if necessary, repair.

It is the responsibility of the rider and the team to ensure a crashed vehicle is tagged and any deliberate attempt to avoid tagging will incur a penalty.

Tagged vehicles will not be allowed to rejoin the trial until the tag is removed following an RACV inspection.

Vehicles will also be inspected at random during the trial for operation of safety items such as brakes or mirrors which will also require rectification before continuing.

7.12 RACV Vehicle

When the RACV Vehicle is on the track it displays flashing yellow lights which indicates extreme danger in the same manner as corner yellow lights/flags.

Riders must slow, use extreme caution, must not overtake other competitors and pass when directed by the RACV driver.

8. Pit Procedure

8.1 The Pit Areas

- All pit sites must be set-up as per the direction of Event Officials.
- Each team in the HPV, EEV and Try-athlon endurance trials will be allocated a site in the pit area, except where schools with three entries in a category will be required to utilise two pits sites.
- All pit sites are numbered and are a minimum of 2.8 metres wide by 2.0 metres deep.
- Where possible, pit numbers are the same as the team number.
- All teams must leave approx 1 metre clearance area in front of their pit site for rider changeovers and for other teams to have line of sight of the track and pit lane.
- There is no existing shelter in the Pit areas.
Teams are encouraged to erect a small tent, or arrange to share a tent with another team. Teams are encouraged to erect a team or school banner in their designated pit area(s) including team numbers. A banner about two by one metres would be ideal.
- HPV A teams are required to share their pit spaces - but not tools and resources - with Try-athlon teams for their Friday night Try-athlon Practice session.
- No vehicles or trailers will be allowed in the Try-athlon pit areas.

8.2 Speed in Pits

Maximum speed in the pit area is 15 km/h.

8.3 Direction of Travel in Pits

Under no circumstances shall a vehicle enter the pit area via the pit exit lane.

8.4 Driver Change-Over

All driver and passenger changes shall occur in the designated area adjacent to each team's pit.

8.5 Stopping in Pits

8.5.1 Brakes only

Vehicles shall come to a halt in the driver change lane under the effect of the vehicle's own braking system.

Stopping with the assistance of others is not permitted.

8.5.2 Full stop

Vehicles shall be stationary prior to unfastening seatbelts or harness.

8.5.3 Riders/Drivers

Driver refreshments and adjustments to clothing etc. shall only be effected when the vehicle is stationary in the pit area.

8.5.4 Pit Crew

- A maximum of three students and one supervising adult, in addition to the incoming and outgoing riders, shall attend a vehicle in the pit lane at driver change-over.
- The four designated people from each team attending the vehicle in pit lane are encouraged to wear a green reflective vest.

8.6 Pit Lanes

Pit entry and exit lanes shall be kept clear at all times.

8.7 Pit Crew Communications

- The use of radio communication between rider and pit crew is permitted provided operating the unit does not interfere with the rider's control of the vehicle.
- The use of notice boards for communication between the rider and the pit crew are permitted.

However, such notice boards and their use shall comply with the following:

- they must be held and displayed by one person only at a time
- they must be held so they do not go beyond the line of pit lane barriers.

8.8 Major Repairs

- Major repairs including welding and grinding equipment must NOT be carried out in the pit lane. The pit lane includes a team's tent adjacent to the track.
- These repairs must be carried out in the vicinity of the repair container.

8.9 Stationary Vehicles

In pit or driver change lanes, stationary vehicles shall give way to vehicles proceeding along these lanes.

8.10 Removal of Components

Redundant, superfluous and/or damaged components of substantial mass i.e. greater than 0.5 kg, may not be removed from a vehicle except with the permission of the chief scrutineer or deputy. At the discretion of the Chief Scrutineer his/her deputy, the vehicle may be required to carry ballast. Teams may not substitute or replace power sources or strip the vehicle below its starting weight after the commencement of the event.

8.11 Vehicle Restarts

Vehicles that have been involved in a track incident and received a Return to Pits sticker cannot restart until a RACV Marshal has checked the vehicle is safe to continue and removed the sticker.

9. Infringements

9.1 Vehicle Design

Vehicles which are considered safe but DO NOT comply with key elements of vehicle specifications may be given permission to start the trial with a penalty.

This penalty can be up to 50 laps and will be applied by the RACV Scrutineers.

9.2 Reporting of Incidents

Teams may report track incidents or infringements of these competition rules to the RACV officials who will investigate and act accordingly.

If teams wish to proceed with an official complaint they will be provided the appropriate documentation.

9.3 Penalties

A team that breaches any trial regulation including the spirit of competition, will be notified that they are under investigation for an infringement of the competition rules.

A panel of officials will review the incident and apply a penalty, which they consider is consistent with the severity and intent of the infringement.

An incident review should be conducted within 30 minutes, but in any case will be resolved before the end of the trial.

Penalties may take the form of:

- A warning.
- A "stop and go" penalty.
- A time penalty.
- 50 lap penalty.
- Disqualification of a rider.
- Exclusion from trial results.
- Withdrawal from competition.

Try-athlon Marshal Information

The following information will assist people to understand their roles and responsibilities as marshals – please pass onto your teams' marshals.

Dear Team Manager,

The schools involved in the Try-athlon event are required to nominate two people to act as marshals for the Obstacle & Time Trial events, along with Corner supervision on the Friday Night practice, plus the Entry & Exit of the Pits along Park Rd. for the Endurance Event.

Try-athlon Marshal Information:

- The Trackside Medical Centre is located near the RACV Bridge and is in radio contact at all times.
- Each team will nominate two people to act as marshals for their sessions.
- The names of marshals should be submitted upon check-in at the Administration Centre at Maryborough or at the Team Manager Briefing.
- Marshals should report for duty 15 minutes prior to their session
- We aim to run an event that is safe and good fun for all involved.

Attached for your information is:

- marshal roster
- a copy of the Try-athlon Trial Rules and Regulations
- flag details, and
- some general advice on the role of Marshal.

<https://www.racveb.com/marshal-training/>

Marshals briefing will be conducted as part of the Team Managers briefing session at 6.00pm on Thursday November 17th at the white Hospitality Marquee, in front of the Swimming Pool, on the RACV Track. Team Managers also attend this meeting.

If volunteer marshals require assistance or a detailed briefing they are more than welcome to contact me or the Energy Breakthrough Admin team.

Thank you for your assistance and support. We look forward to working with you and ensuring the event is enjoyable and safe for all.

Yours sincerely,

Mary Preston
Try-athlon Coordinator
M: 0434 769 862

Marshal Rosters

Obstacle and Time Trial

Friday 9am – 4pm on RACV Track

2 people per School

(Obstacle: 4 Time keepers / 4 Obstacles– 2 people at each)

(Time Trial: 4 Time keepers / 2 Turns - 2 people at each)

	9.00am – 11.00am	11am – 1pm	2pm – 4pm
Obstacle Rally (RACV Track – near stage)	Mornington Flemington Cockatoo St. Michael & John St. Mary's Tyabb	Overnewton North Geelong Nathalia St. Paul's Rossbourne Yuille Park	Yarrawonga Ballarat Gleneagles Moorak/Yahl Walgett Seymour
Time Trial (RACV Track – back straight)	Kooweerup EDEC Toorak MEC	Yarrawonga Natte/Amphi Kingsley Park Kilberry Valley	Beaconsfield Beaconsfield Upper Emerald Kyabram

Infringements – (Obstacle event)

It is important to have two people on at each station to watch out for infringements. This can be done by one marshal watching and calling while the other marshal records infringements or by both marshals watching and recording. At the end of each team's run both marshals must agree of the infringements recorded.

Things to monitor:

<u>Infringement</u>	
Minor	<ul style="list-style-type: none"> ▪ Contact with hay bale or barrier ▪ Loose seat belt and/or helmet
Intermediate	<ul style="list-style-type: none"> ▪ Careless driving ▪ Contact with other vehicle ▪ No seat belt ▪ No helmet ▪ Incorrect pit change over (pushing vehicle out of pits, not stopping within pit space, moving off before helmet and/or seatbelt is fastened)
Major	<ul style="list-style-type: none"> ▪ Very dangerous driving

Night Practice

(Friday 7.30pm – 10.30pm on CFA Track)

2 people per Corner unless indicated.

	8.30pm- 10.30pm
Exit of Pits(Main straight)	MEC
Corner 1 ###accident prone – 3 people required	Emerald
Corner 2 ###accident prone – 3 people required	St Margaret's School & Berwick Grammar
Corner 3	Beaconsfield
Corner 4	Tootgarook
Corner 5	Rossbourne
Entry of Pits(Park Rd)	Lucknow
Corner 6	Seymour
Corner 7 ###accident prone – 3 people required	EDEC
Corner 8	Moorak / Yahl
Corner 9	Mornington

Endurance

(Saturday 2pm- 10pm on CFA Track)

	2.00pm – 5.00pm	5.00pm – 8.00pm	8.00pm - 10.00pm
Park Rd - Pit Entry	Gleneagles	Kingsley Park	Kilberry Park
Park Rd - Pit Exit	Flemington	Natte/Amphi	St. Mary's

GENERAL ADVICE

On arrival at your **designated station** check that ***you know how to - use the equipment / know safety procedures that you will need before the race starts*** - there is “practice time” allowed in each session, so plenty of time for you to ask questions / get organized prior to the race.

As Marshals you play a very important role in the safe conduct of the event. You are our EYES and EARS around the Track.

Two marshals are rostered on at any time at the checkpoint - they need to work together to carry out the role properly. There will be a great deal of time when nothing happens and you may find it boring. ***However it is still important that you remain alert and watchful.***

Team work

It is important to have two people on at each station - firstly for safety reasons and secondly for company. Generally, one will be looking up the track and one down the track.

Equipment

You will both need a vest and flags which will be collected from Co-ordinator as you report in for your session. You will also receive a **yellow, red & green flag**, these are to be used.

Red An indication of extreme danger. All vehicles shall come to an **immediate** stop. Racing has ceased.

Riders will **absolutely** follow the directions of the Co-ordinator and flag marshals.

Yellow A sign of danger or track obstruction in the vicinity of the marshal point. Riders are required to pass the point of danger at a reduced speed using extreme caution. Riders are required to hold race position until they come to the next green flag.

Green All clear; riders continue racing.

Accidents

In the case of an accident, **one marshal goes out to assist the rider**; the **other marshal watches the other traffic** and **uses flags to warn vehicles to take care** and calls for assistance if required.

Use the Yellow flag to warn other riders. The marshal attending the rider should assist the rider where possible and make sure the rider is safe from further danger.

If first aid is required the marshal should ask the second marshal to call for first aid assistance. The Medical & Emergency Services team are on call during the duration of the event. If you believe a rider needs assistance do not hesitate to call for first-aid.

Suggested Safety Guidelines

- Take care
- Stay alert
- Stand behind a barrier
- Face oncoming traffic
- Wear visible vest
- Wear warm/water proof clothing or wear a hat & stay in the shade if hot
- Be visible

Replacement Marshal

Under no circumstances should a marshal leave their station until a replacement marshal has arrived.



CIRCUIT LENGTHS

RACV - 1.58 km
CFA - 1.11 km

KEY

- Toilets
- Showers
- Camping Area
- First Aid
- Food & Refreshments
- Assembly Point
- Marshall Point & Number
- Track Direction
- Start/Finish
- Pushcart Changeover Point
- Wrist Banding Station
- RACV Stage
- CFA Stage
- Road Closure
- Repair Station
- Recharge Station
- Parking Area
- On-site Supermarket
- Hospitality Marquee