

BIG RED RACE TRAINING

A SET OF DESERT TRAINING

EXPERIENCES FOR FIRST - TIME AND EXPERIENCED
DRIVERS

BIG RED
RACING



EVALUATION MODULE

The intention of the evaluation module is that ALL participants in Big Red Racing Training will be evaluated in the following areas before starting any modules:

- Driving experience
- Anticipation
- Mechanical sympathy
- Pace

Having completed the up to 2 hour evaluation, supported by an instructor, Modules 1-5 can then be accessed having identified areas that require further development

| | |
|----------|-----------------------------------|
| LEVEL | ALL |
| VEHICLE | Stock 2023 Can-Am Maverick XRS X3 |
| TIME | Up to 2 hours |
| DISTANCE | +/- 50km |



MODULE 1

| | |
|----------|-----------------------------------|
| LEVEL | Beginner/Crew Requiring Refresher |
| VEHICLE | Stock 2023 Can-Am Maverick XRS X3 |
| TIME | Half Day (Up to 3 hours) |
| DISTANCE | +/- 50km |

1.1 Dune Orientation

- Dune shape– Linear / Crescent Dunes – identifying shapes of dune, shoulders and valleys
- Slip Slopes and Lead In Slope– identify shape of individual dunes
- Tracks – difference between fresh piste and tracks in terms of traction

1.2 Vehicle Preparation

- Seat Position– set up in relation to height and distance from steering/pedals
- Safety– Flag, first aid, fire extinguisher, other vehicles, phone, radio, key land marks
- Tire Pressures– for sand, gravel, rocks and combinations of terrains, including method of deflation
- Monitoring Vehicle Systems– temperatures of belt, temperatures of engine, fuel, dash

1.3 Dune Crossing – Stage 1

- Use of Valleys and Shoulders (low point) – lowest risk in order to cross dune
- Timing of Crossing– use of accelerator / brake to cross crest with optimum momentum
- Angle of Crossing– right angle versus at angle
- Use of Momentum– use of downslope to gather momentum
- Use of Gravity– use of slope to maintain momentum
- Loss of Vision Depth– time of day/colour of dunes
- Peripheral Vision – timing dune crossing by use of side window
- Use of crest – keeping height through hooking a wheel over crest
- Subkhas– dangers, pace, berms



MODULE 2

2.1 Dune Crossing - Stage 2

- Reinforce Stage 1
- Use of Crest to Plan Exit– running along crest using height to plan safe exit point
- Use of Dune Contours to ‘Flow’–producing sinuous route using slip faces to circumnavigate drops
- Anticipation– reading dune orientation to anticipate next obstacle
- Observing ‘short/long’– ensuring once route is planned, observe ‘short’ (20-50m) in exiting dune before observing ‘long’ (50-150m) to plan next dune
- Route Planning using co-driver input– Employing co-driver to emphasise short and long observations
- Entry/exit angles of vehicle and capabilities to gather momentum
- Vegetation – danger and consequences of camel grass. Recognising vegetation influence on dune formation
- Pursuit Training – using behaviour e.g. brake light/vehicle attitude to guide pace and direction. Developing an understanding of vehicle capabilities and limitations

2.2 Recovery - Stage 1

- Tire Pressures– reducing pressures to aid traction
- STOP – Stop, Think, Observe, Plan
- Use of Gravity/Slope– using both when momentum is key
- Recovery Boards– positioning, correct use, recovery of boards
- Towing– kinetic tow ropes/soft shackles/recovery point/direction to tow/safety
- Shovel work– type of shovel, effective technique

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|----------|---|
| LEVEL | Intermediate: Completed Module 1 / Experienced Driver |
| VEHICLE | Stock 2023 Can-Am Maverick XRS X3 |
| TIME | Half Day (Up to 3 hours) |
| DISTANCE | +/- 80km |



2.3 Navigation - Stage 1

- GPS – familiarity of ERTF / Garmin GPS devices
- Use of Arrow- use of ERTF / Garmin GPS arrow to guide direction
- Use of tracks / landmarks– using a wide vision to assemble all aspects of direction and terrain

MODULE 3

| | |
|----------|---|
| LEVEL | Intermediate: Completed Module 2 / Experienced Driver |
| VEHICLE | Stock 2023 Can-Am Maverick XRS X3 |
| TIME | Half Day (Up to 3 hours) |
| DISTANCE | +/- 80km |

3.1 Navigation - Stage 2

- Familiarity of ERTF Unik1 GPS (FIA / ASO events)– building an understanding of all functions of device
- Legend of Road book– identifying key symbols and their respective meanings
- Application of Road book to ERTF Unik1 GPS- building a familiarity of the sequence of road book markings and applying to distance on ERTF
- Marking of Road Book– what to mark in order of importance
- Hidden Way Points– use of distance and a CAP heading to achieve masked waypoints (no arrow until +/- 1km)
- Use of Landmarks- using a wide vision to assemble all aspects of direction and terrain related to the road book e.g. mast/fence
- Use of Odometer– total and partial distances. Calculating and resetting distances

3.2 Dune Crossing - Stage 3

- Options for loss of momentum on dune ascent–early ‘bail’ to avoid getting stuck
- Maintaining height to maximise options / visibility–use of high point of crest to identify all options and plan route for both ‘short’ and ‘long’ distances
- Safely increasing pace– in terms of crew ability, terrain and vehicle capabilities
- Slip sloping– using slip faces to ‘flatten’ desert and increase ‘flow’

3.3 Recovery - Stage 2

- Reversing vehicle– using topography to ensure rear of vehicle is raised in preparation for gaining momentum going forward
- Use of co-driver signals to assist reversing–standardised signals for co-driver to use whilst stood in front of vehicle during reversing manoeuvres
- Using others to tow– Dangers, preparation and communications
- Towing others- Dangers, preparation and communications



MODULE 4

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| LEVEL | Expert: Completed Modules 1 - 3 / Experienced Competition Driver |
| VEHICLE | Stock 2023 Can-Am Maverick XRS X3 |
| TIME | Half Day (Up to 6 hours) |
| DISTANCE | +/- 100km |

4.1 Race Specific Information –Stage 1

- Crew team work– composure, personalities, blend
- Fitness– Macro, meso, micro application to crew fitness in build up to events
- Entry– planning logistics, planning wider team, choosing vehicles, completing entry
- Shakedown– necessity, ideal use of
- Administration / Scrutineering– expectations for FIA / ASO events and relevant necessary documentation e.g. FIA Passport

4.2 Vehicle

- Mechanical sympathy– 4x4 heavier vehicle, reduced power and application of all dune skills above to reduce vehicle damage
- Gear selection and timing– in manual vehicles in approach to dune crest and post
- Diff lock use– occasion and timing/person to activate (if applicable)
- Monitoring vehicle systems– increase in levels of information for engine and vehicle management systems

4.3 Night Driving

- Use of auxiliary lighting– placement to maximise potential including brand and type used
- Spread of lighting– to maximise field of vision
- Track following techniques– sweeping to stay on track
- Pace– depending on visibility



MODULE 5

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|----------|---|
| LEVEL | Expert: Completed Modules 1 - 4 /Experienced Competition/Pro Crew |
| VEHICLE | Stock 2023 Can-Am Maverick XRS X3 |
| TIME | Half Day (Up to 6 hours) |
| DISTANCE | +/- 150km |

5.1 Vehicle

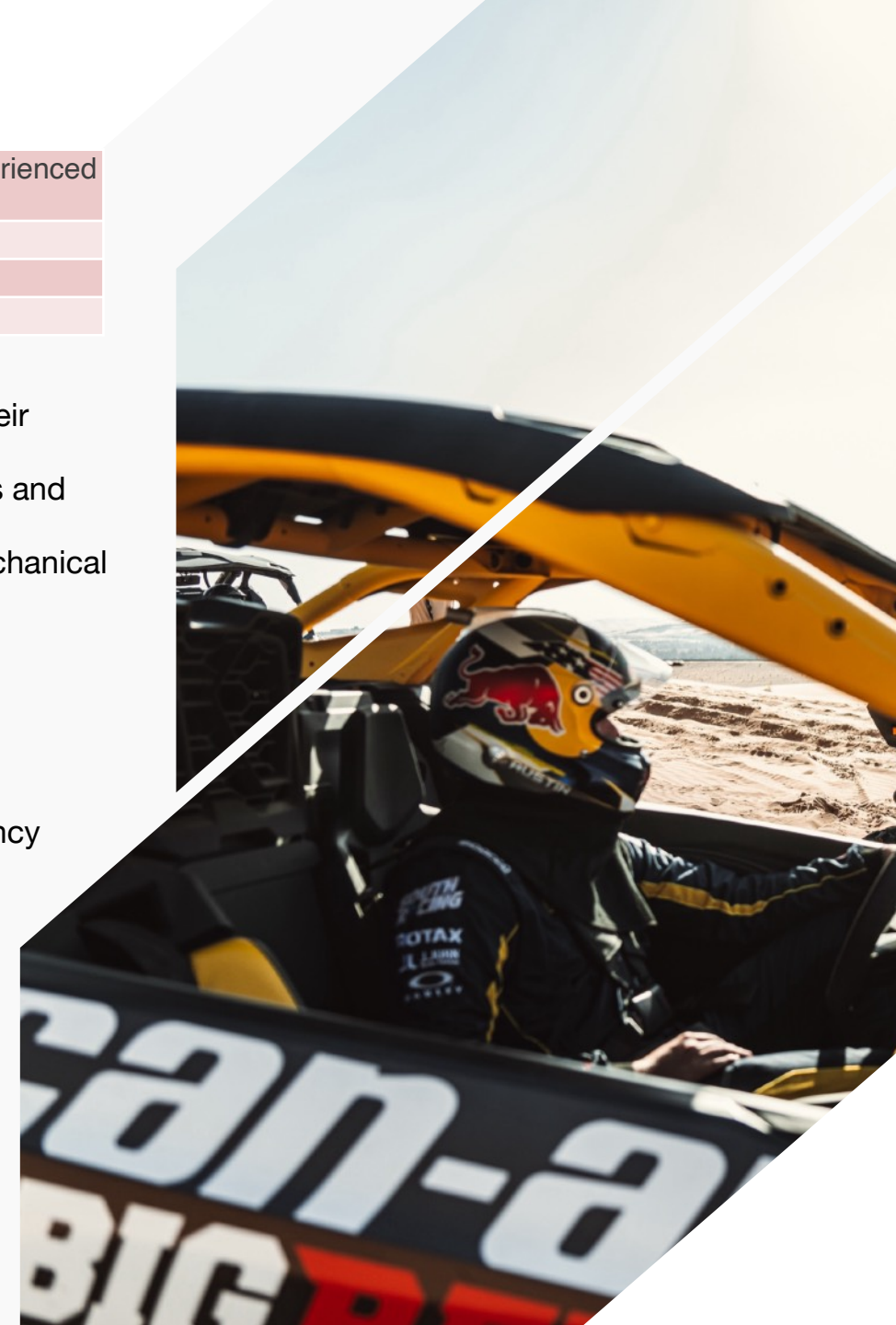
- Vehicle specific introduction– walk around vehicle familiarising crew with all aspects and their function
- Seat position– optimum position for driver and co-driver to allow access to vehicle systems and vision of terrain
- Mechanical– technical team to contribute to preparation of crew with ability to manage mechanical issues with vehicle

5.2 Race Specific Information -Stage 2

- Prologue– tactics, benefits, negatives
- Road Section (Liaison)– navigation, drivers, entertainment
- Special Stage– pace, tactics
- On Stage Diet and Nutrition– use of nutritional aids to minimise fatigue and increase efficiency
- Finish procedure– time cards, inflation, and liaison
- Bivouacs– Setup, and personal experience
- Wider team aspects– personalities, health and well-being, roles

5.3 Routes

- Al Badayer loop– +/- 50km
- Al Badayer to Fossil Rock (return)– 100km



INCLUDED

- Hiring of training vehicle(s)
- Hiring of a range of support vehicle(s)
- Technical support
- Fuel
- GPS hire
- Management and facilitation fees
- Big Red Race Training infrastructure and resources
- Debriefing and theory sessions
- Catering: all drinks and snacks during the training
- Hotel transfers

EXCLUDED

- Personal first aid and medical cover (Personal medical cover must be provided by the customer)
- Liability - as per Big Red Race Training Terms and Conditions, BRRT accepts no responsibility of personal injury
- Damage to vehicles
- Flights
- Accommodation (can be arranged if required from 100 Euro)

BIG RED RACE TRAINING

CONTACT US

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