



# NSW STATE ROAD CRASH RESCUE CHALLENGE

STRONGER TOGETHER



# INDUSTRIAL DOMESTIC RESCUE CHALLENGE RULES

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Version – February 2024 Reviewed by RCRC Technical Group	
Section	Changes
Section 2. Team membership	4 members
Section 2. Team membership	Returning Champions strongly encouraged to change team members
Section 14. Team presentation at Challenge	20 minutes
Version – February 2025 Reviewed by RCRC Technical Group	
Section	Changes
Section 1. Definitions	Redefined the term Organisers
Section 5. Insurance	1 month prior to the event
Section 10. Scenarios	Duration changed to 15 minutes

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## 1. Definitions

The term “Organisers” hereafter will mean the NSW Road Crash Rescue Challenge Organising Group, collaboratively led by Fire & Rescue NSW and the NSW State Emergency Service.

## 2. Team membership

Each team will consist of four (4) members who are not competing in the Trauma Challenge.

At the discretion of the Chief Assessor, a team may substitute a team member in the case of illness or injury, except during a scenario. If, during a scenario, a team member is injured and has to withdraw, the team, if able, may continue until they finish, or ‘Time’ is called.

Team members may only participate if they can demonstrate competency in pre-hospital emergency care by holding, as a minimum, the APSTP Unit of Competency PUAEME002C ‘Manage injuries at emergency incident’, or equivalent.

The winning team from any one year may return as ‘defending champions’ in the following year without having to change their team membership. Should that team win two years in a row, they are strongly encouraged to change their team membership.

## 3. Accident Injury or Illness

If, during the challenge, an accident, injury or illness or injury occurs to a team member, casualty, spectator, or any person, which affects the running of the scenario, the injury will be advised to the Organisers as an authentic occurrence (i.e. ‘No duff’).

The Chief Assessor, Assessor or Safety Officer will immediately instigate competent medical attention to the situation via the local provider or crew on standby at the site. The delay or ceasing of that scenario will be at the discretion of the Assessor Panel Leader in that pit. The Challenge Coordinator is to be advised immediately.

## 4. Pit access

The pit area will be off limits to all persons unless authorised by the Organisers. Authorised persons will be admitted entry only by accreditation pass or other approved means.

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## 5. Insurance

Adequate Workers Compensation and or Injury Insurance for the participating teams will be the responsibility of that team's Service, Agency or "Employing Organisation". A letter and/or insurance certificate confirming adequate coverage of the team will be required one month prior to the event.

## 6. Registration

Team application and registration for this challenge can only proceed on the official entry form supplied. As part of the process of registration teams must confirm that all members of the team comply with the requirements of rules 2 and 18 of this Challenge.

All extrication challenge team entries will be guaranteed entry into the Industrial Domestic Challenge. Should more teams register for the challenge than there are places in the program, preference will be given to applications on the following criteria:

- A FRNSW team that has previously participated in a Firefighter Championships Association event.
- A NSW SES team as determined by the agency
- A team from another NSW rescue agency or a team from outside NSW to fill vacant positions, up to a maximum of 22 teams.

Registration of arrival will take place prior to the challenge. (See timetable for further information).

Teams that are unable to participate in the challenge must notify the Organisers in writing of their decision to withdraw, or they will be deemed to be a 'No show' and be disqualified.

## 7. Assessors

Challenge Assessor panels in the Industrial and Domestic Rescue stand will comprise of 2 technical assessors. All Assessors must be registered rescue operators with their relevant agencies.

## 8. Assessment sheets

The assessment sheets will remain with the Scoring Coordinator and will not be available for viewing or scrutiny by any unauthorised persons. Assessors will complete the assessment sheet during the scenario and confirm their scores in ink prior to the team debrief. No further amendments to the assessment sheets will then be made. Score sheet summaries for each team will be made available to that team after the conclusion of the challenge.

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## 9. Appeals and Complaints

### Appeals

The team leader of any team that has a grievance or dispute must report it in writing to the Chief Assessor within one hour of completing the scenario concerned on the day.

All appeals in respect of a technical performance and associated scoring will be heard by the Chief Assessor who will, where required, investigate or discuss the issue with any involved assessors and whose deliberation is final.

All allegations of unfair assessment not relating to technical performance will be investigated thoroughly from all perspectives by the Chief Assessor who will present their findings to the Organisers Appeals Committee for their deliberation. The Organisers Appeals Committee will consist of 5 key members of the Organisers.

### Complaints

The team leader of any team that has a grievance or dispute in relation to witnessing an occurrence in a scenario must report it in writing to the Chief Assessor within two hours of witnessing it.

All allegations will be investigated thoroughly from all perspectives by the Chief Assessor who will present their findings to the Organisers Appeals Committee for their deliberation. The Organisers Appeals Committee will consist of 5 key members of the Organisers.

## 10. Scenarios

The exact scenario delivered to each team in each class will remain confidential. Scenario duration will be 15 minutes.

Competing teams will draw commonly used Industrial & Domestic Rescue tools from an equipment cache.

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## 11. Scenario Aims and Objectives

The NSW State Road Rescue Challenge – Industrial & Domestic Rescue is designed to meet the following outcomes:

- Replicate Industrial & Domestic Rescue scenarios that General Land Rescue and RCR crews may be called to attend.
- Create an environment where:
  - Teams have the opportunity to demonstrate a range of techniques and options to extricate casualties.
  - Team performance can be analysed over a series of extrication scenarios.
  - Learning and education in all facets of extrication is promoted.
  - Participants will leave being able to perform more competently at Industrial & Domestic Rescue scenes, exercising current techniques in vehicle extrication and casualty treatment.
  - Participants have an enjoyable experience.

As part of the process of demonstrating their skill, teams must implement at least one recognised technique in each class. Recognised will be defined as a technique contained within the competing agencies most current training material. Teams will be objectively assessed on the outcome of the application of their technique (e.g. final space made) as well as the efficiency and safety of its execution.

Teams that do not implement recognised techniques will most likely receive an assessment in the basic range from the technical assessors.

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## 12. Definition of phases of Industrial and Domestic Rescue and effect on assessment

Extrication can be divided into three broad phases:

- Casualty access and space making
- Extrication options for release using Manipulate, Dismantle, Displace, Cut (MDDC)
- Casualty packaging and handover

Sufficient space will need to be created for medical intervention and casualty release/packaging reflective to their mechanism of injury. Teams are expected to recognise the medical needs of the casualty(s). The casualty(s) will have one or more injuries or illnesses.

To achieve success teams will need to demonstrate a balance between efficiency, safety and urgency to find and treat the casualty(s)'s life threatening injuries as soon as it is safe to do so and complete extrication of the casualty(s) within the available time frame.

To achieve these outcomes in each class teams should demonstrate techniques consistent with the overall technique-based philosophy.

## 13. Overall Technique Based Philosophy

Manipulate	Ring String Technique Ask casualty to show you how they got stuck Posturing Use of ice or lubricants
Disassemble	Appreciation of how object assembled Correct selection of tools Tools appropriate to task and designed use Clear objective set, not stripping machine Through appreciation of stored energy and bleed down/blocking
Displace	Material to be displaced identified Appropriate tools selected Mode of failure identified (brittle failure etc)
Cut	Cutting tool appropriate to material identified Risks identified and managed (fire, thermal transfer, sparks) Appropriate protection provided Cooling Material mass and reactive forces

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## 14. Prop positioning and relocation

Props may be positioned in pits to represent a simulated industrial or domestic environment. Every effort will be made by the organisers and Organisers to ensure the realism of these props. This means that if the object is intended to be fixed and immovable, it will be placed in the scenario in such a way as to make it immovable. If the Scenario Manager is unable to create an equitable scenario a simulated immovable object may be used. Clarification about the mobility of any prop can be sought from an IDR Assessor at any stage during a scenario.

## 15. Tools and Equipment

The Organisers will arrange to provide a range of makes and models of rescue tools which will ensure as much as possible of the equipment listed in the Organiser's recommended pit equipment list (See Appendix 1) is provided at the pit.

Teams may bring tools and / or equipment for use in any of the pits. All these items, including personal equipment belts and their contents, must be scrutinised by Assessors at a time and place determined by the Organisers, prior to the commencement of the Challenge. Items that are supplied in the tool dump, which perform a similar function to equipment that teams introduce will be removed. This is to ensure that teams bringing additional equipment do not gain a quantity advantage.

Engineering certification must be produced for any tool or piece of equipment brought by a team that is likely to bear load or be put under mechanical stress. The Assessors' decision on tool and equipment suitability will be final.

Teams may not use radios to communicate between their members.

### **The following items of equipment are prohibited:**

- Knives that have disposable blades designed to snap off at predetermined points;
- Knives that have a retractable or folding blade without a locking mechanism when the blade is in the exposed position;
- Knives for which the blade is not sheathed or placed in a pouch when not in use;
- Hack saw blades that are not bi-metal construction (i.e. shatter proof); and Teams may choose whether to leave their equipment in the tool dump for all teams to use or place the items out for their own scenario only.

N.B. All team members should make themselves familiar with any tool that they may use at the Challenge.

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## 16. Team presentation at Challenge

Teams will present themselves to the Isolation Manager or at a location nominated by the Operations Officer and specified during the Team briefing. This must be prior to the time indicated on the timetable for their equipment inspection. Teams may be directed to start earlier or later than indicated in the timetable to ensure the efficient and effective running of the event, at the discretion of the Chief Assessor.

Once the team presents, they are to remain there until they are escorted to the tool staging to commence their equipment inspection. The team will have a set time as detailed on the timetable to stage all their tools and equipment. When the team has either completed equipment preparations or the time has expired, they will be taken to an isolation area out of sight of the pit to allow for the staging of their scenario.

After the team leaves the pit equipment area no member of the team or their supporters shall be allowed to make any further adjustments to the pit equipment or supplement the cache with any additional items. Any items the team identifies as being missing or unserviceable are to be brought to the attention of the Pit Manager before the team leaves the pit area. The Pit Manager will be responsible for resolving the issue and communicating the outcome to the team before they are in isolation.

The team will be escorted back to the challenge pit once their scenario has been staged. While in isolation, the use of all electronic devices is prohibited by team members.

Each evolution consists of:

- Isolation (at least 10 minutes)
- On scene (15 minutes)
- Debrief (10 minutes).

## 17. Breakdown of scenario

At the conclusion of their scenario, each team must remove and tools, stabilisation, medical equipment, and patient protection. This may be varied at the discretion of the IDR Assessor subject to the number of personnel in the pit crew available to break the scenario down.

## 18. Assessment of performance

A panel of qualified Assessors will assess each team's performance. The parameters assessed are detailed in the Assessor's Guidelines and on the Challenge Assessment Sheets. Teams should note that Assessors are briefed to assess a team's performance on what they see and hear, not what they expect to see and hear. With this in mind teams are urged not to 'play up' to the Assessors by giving a running commentary of what they might do under certain conditions, but to actually do what they would normally do if they encountered the same scenario.

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## 19. Debriefing

Following each scenario, the Assessor panel will conduct a short debrief with each participating team. The debrief is designed to provide a learning opportunity for all involved. To that end teams are encouraged to have their reserve or manager take notes or video the discussion. Subject to approval by both the team leader and the Assessor panel leader, observers are welcome in any debrief.

## 20. Personal Protective Equipment

All competing team members will at all times during the challenge wear currently issued clothing and personal protective equipment as approved by their agency. As a minimum, suitable turn out gear, coveralls, safety boots, eye protection (in the form of rated safety glasses), and where appropriate ear and/or respiratory protection is required.

Teams representing agencies that require their personnel to wear and use helmets with visors (for facial protection) will be expected to wear and use them during the challenge.

In keeping with workplace health and safety work practices, teams are required to supply and use their own latex gloves, dust masks and other consumable personal protective equipment supplies.

N.B. Teams may only wear protective clothing that has been authorised by their Service or Agency. This personal protective equipment must meet with an approved standard, e.g. Australian Standards Association (ASA), New Zealand Standards Association, National Fire Protection Authority (NFPA), Occupational Health & Safety Authority (OHSA) or similar international organisations. If the protective clothing to be worn in the challenge is not the same as normally worn for operational turn outs by a team, then a letter confirming it is authorised for use is required from the head of the Agency or Service at the pre challenge team briefing.

## 21. Challenge safety

Where the command “STOP” is given, ALL members of the team will immediately stop their actions. This command indicates that a safety problem exists. Time will be stopped until the safety issue is rectified. Once addressed the Assessor will give the permission for the team to continue and the clock will re-commence.

If there are any further safety stoppages during the same evolution, the time will not stop, and the team will have to rectify the situation while the clock continues to run. The above safety calls can be made by any of the Assessors or Safety Officers. If the problem can't be rectified the Assessor may disqualify the team or cancel the evolution.

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## 22. Timing

Assessors in each pit will be responsible for accurate timing of the scenario. The Assessor will call “time” when time has elapsed by calling ‘Time’. Alternatively, the team may call “time” before the available time has elapsed, when the casualty has been extricated, and the team has completed the scenario.

## 23. Casualties

Live people and manikins will be used in this Challenge. Teams will be expected to assess the casualties and provide appropriate extrication consistent with the injuries they find. Specific consideration should be given to maintaining the dignity of the casualties in this public training environment. Casualties will be wearing a black base layer of clothing which should be treated as a skin layer.

## 24. Non-attendance of team

In the event of a ‘No Show’ by any registered team at their appointed time for equipment inspection, the Chief Assessor may disqualify them from that class.

## 25. Information:

The Organisers reserve the right to use any and all information that may be obtained from the Challenge and its participants for educational purposes.

## 26. Team Briefing by Chief Assessor:

A briefing will be held at a time to be notified prior to the Challenge. It is mandatory for all team leaders and medics to attend. Team managers may also attend if a team has someone nominated to this role. Other team members are invited to attend the briefing, however; only team leaders and medics may ask questions.

Some or all members of the following groups may also attend the briefing:

- Organisers members.
- Special guests, including representatives of other agencies.
- Others at the discretion of the Event Coordinator.

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## 27. Determination of Results

The Organisers will determine the prizes to be awarded from year to year. Determination of results will be based on the following criteria:

- Rankings will be allocated for each assessor in such a manner that the team that scores the highest score from an assessor will be given a 'rank score' equal to the number of teams in the challenge. The team that scores the next highest score from that assessor will be allocated a 'rank score' one less and so on. The team that scores the lowest from that assessor will be allocated a 'rank score' of 1.
- Rank scores for each team from the different assessors will be added together.

Where two or more teams are tied for any place the category of award will be declared a dead heat and no prize at the next level down will be awarded (i.e. if a dead heat for winner, no 2<sup>nd</sup> prize).

## 28. Disqualification

Any team or team member that does not adhere to these rules or brings disrepute upon the Challenge may be disqualified.

Any matter concerning the possibility of a team disqualification or a matter bringing the Challenge into disrepute will be heard by a committee made up of the Chief Assessor and two other members from the organising body. Any decision made by this group will be final.

Spectators or team supporters may barrack and encourage teams in the spirit of fair play; however, any "coaching", including calling time remaining, from the spectators or team supporters will result in a "STOP" being called, but the clock will continue to run. The Assessor panel leader will give a warning to the offending person or persons. Any subsequent coaching call will result in time being called on the participating team.

## 29. Participation in the Learning Symposium

The intent of the NSW State Road Crash Rescue Challenge is to explore, develop and promote best practice in the delivery of integrated road rescue services and patient care. To this end the challenge each year includes a learning symposium the day before the challenge. To ensure maximum learning opportunity by all participants, attendance by teams competing in the IDR Challenge at the symposium is strongly encouraged.

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## Appendix 1: Recommended Pit Equipment List

ITEM	QTY
<b>Finger Kit</b>	
Venetian Blind	1
Tape Measure	1
X-ray film	1
Feeler Gauges	1
Brick Line	1
Ring Cutter	1
Jewellers Screw Drivers	1
6mm Glass Drill Bit	1
18 TPI Hacksaw Blades	5
24 TPI Hacksaw Blades	5
32 TPI Hacksaw Blades	5
Junior Hacksaw and Blades	1
Vice	1
Flexible pick-up tool	1
Jewellers' snips straight	1
Jewellers' snips curved	1
Circlip pliers	1
Carbide rod saw	1
Vaseline or body safe lubricant	1
Glass Cutter	1
Padsaw handle	1
Stanley Knife	1
Side Cutters	1
Trauma Shears	1
Electrical Tape	1
PTFE Tape	1
Double Acting end cutters	1
Long Nose pliers	1
Splinter Probe	1
Extendible Mirror	1
Tweezers Blunt and Pointed	1
Small First Aid scissors	1
<b>Casualty Protection Equipment</b>	
Edge protection soft – protective cover 260 x 300mm (approx dimensions)	4
Edge protection soft – protective blanket 600 x 600mm (approx dimensions)	4
Edge protection soft – protective blanket 1500 x 600mm (approx dimensions)	2
Edge protection rigid – Pipe 150mm diameter x 400mm	2

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Edge protection rigid – Pipe 100mm diameter x 400mm	4
Glass catcher 1	1
<b>Stabilisation Equipment</b>	
Blocks, timber, step	4
<b>Cribbing – Timber</b>	
Blocks, timber approx. 100 x 50 x 500mm	20
Blocks, timber approx. 100 x 100 x 500mm	20
Wedges, timber 100 x 100 x 500mm	12
Wedges, timber 100 x 50 x 500mm	12
Wedges, step/blocks 500mm x 200mm	4
Wedges, timber assorted sizes (e.g. wheel chocks and shims)	12
<b>Cribbing – Timber Alternate</b>	
Timber blocks 100x100x500 taped handle	12
Timber blocks 100x50x 300 taped handles	6
Timber wedge 100x100x 450 taped handles	6
Timber wedge 100x50x250 taped handle	6
<b>Casualty Treatment Equipment</b>	
Space/emergency blankets, patient care only (not wool or cotton)	1
Extrication device (e.g. KED or similar)	1
Oxygen therapy equipment 1	1
Patient protection, various sizes, hard, set	1
Patient protection, various sizes, flexible, set	1
Patient protection, various sizes, soft, set	1
Stretcher, scoop style 1	1

In addition to the above a stock of consumables needs to be available to replenish supplies of:

- Bi-metal hacksaw blades – 2 per team
- Reciprocating saw blades – 2 per team
- Air cylinders
- Medical oxygen cylinders (one per team) & therapy masks (two per team) plus spares
- Spill absorbent material (kitty litter)
- First aid supplies to include:
  - 2 oxygen mask per team (e.g. 24 teams = 48 masks + 6 spares)
  - Bandages and dressings per scenario
  - One cervical collar per team (adjustable size or sets)
  - Disposable cardboard splints – 1 small & 1 medium per team
  - Duct tape

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## Appendix 2: Recommended Pit Medical Equipment List

ITEM	QTY
FRNSW EMT Kit	1
NSW SES First Aid Roll	1

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