

NSW STATE ROAD CRASH RESCUE CHALLENGE

STRONGER TOGETHER



RESCUE SKILLS CHALLENGE RULES

(6 Rescue operators)



Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue:

March 2021

Document Owner: Firefighter Championships Association

Current Version: V1.1 EXEC OFF30 January2024

Page 1 of 10

Review By:

30 January 2025

Contents

1.	Objective / Core Competency Skills	3
2.	Equipment	3
3.	Layout on Track.....	4
4.	Running of Event.....	5
a.	Pre-Operational Check.....	5
b.	Track Evolution Safety	5
c.	Knot Bar	5
d.	Combi Tool.....	6
e.	RIK.....	6
f.	Stokes Litter & Patient Packaging	7
	Penalties.....	9

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue: March 2021

Document Owner: Firefighter Championships Association

Current Version: V1.1 EXEC OFF30 January2024

Page 2 of 10

Review By: 30 January 2025

1. Objective / Core Competency Skills

To assess various rescue skills of a team of 6 rescue operators.

Core Skills – Rescue Skills (Knots, Combi Tool, RIK, Power Hydraulic Pump, Hand Hydraulic Pump, Stokes Litter, Patient packaging)

2. Equipment

There is no equipment from Teams for this event other than that which is set up on the track for use in the scenario.

Full issued duty wear PPE (by each agency) is required for this event (Boots, Helmets, Gloves, Eye protection -**2 Levels of eye protection while using hydraulics**)

All PPE to be worn for entire event.

Equipment supplied for scenario. (FCA / FRNSW)

- Combi Tool
- Dual hoses with quick connects.
- Portable petrol hydraulic supply pump
- RIK
- Single line hose with quick connects.
- Hand Hydraulic pump
- Hammer and wedge
- Stokes Litter
- 4 Straps
- 4 Blankets
- GP line for knots 4 x 3m
- Kernmantle rope for knots 4 x 3m
- “RED Door” system
- 30 Barriers
- 100mm water pipe length 2x3m
- 3x3 Gazebo
- HD Zip Ties 50
- 45x45 wet soaked hardwood 40 x 300mm
- 2 stop watches
- 4 clip boards with scoring sheets
- Copy of rules laminated.
- 4 RESCUE assessors (FCA)

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue:

March 2021

Document Owner: Firefighter Championships Association

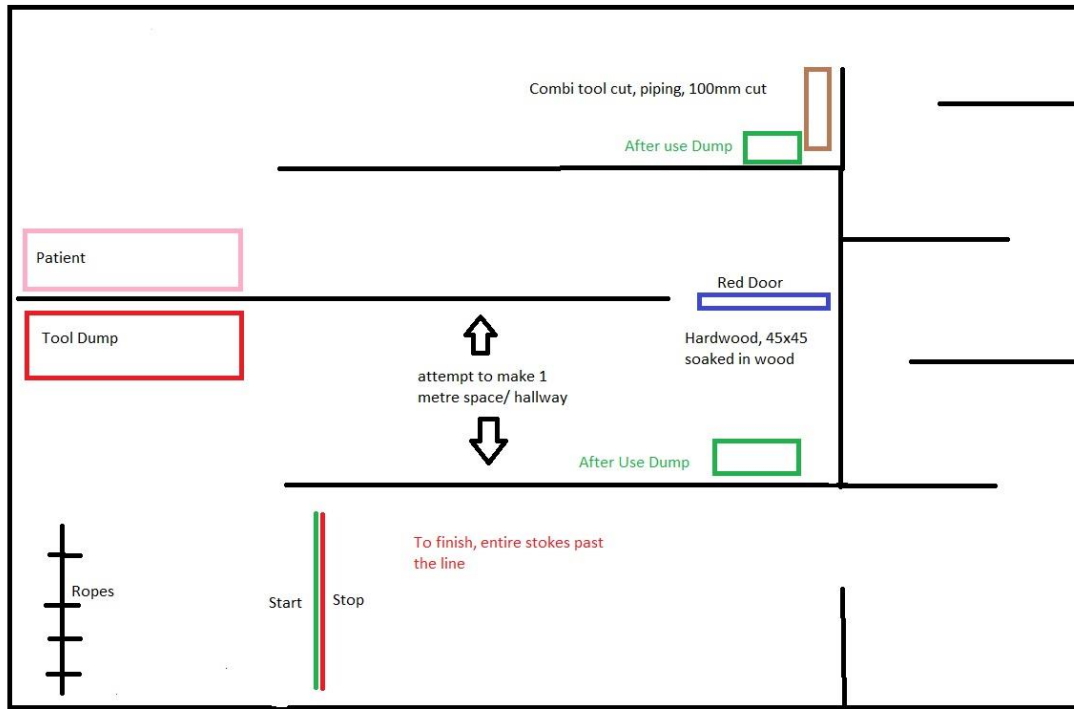
Current Version: V1.1 EXEC OFF30 January2024

Page 3 of 10

Review By:

30 January 2025

3. Layout on Track



Tool Dump:

Stokes, patient board, straps.
Rik kit disconnected
Combi, hydraulic line, hydraulic pump. disconnected

The track is set up with 4 areas with the different rescue operations to be completed:

- Knot Bar (4 different knots)
- Combi Tool (combi tool & power hydraulic pump to cut steel bar)
- RIK (Door opener & hand pump to open door)
- Stokes Litter (Carry stokes litter through slalom course & place on mark). Patient Packaging at Stokes Litter

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue:

March 2021

Document Owner: Firefighter Championships Association

Current Version: V1.1 EXEC OFF30 January2024

Page 4 of 10

Review By:

30 January 2025

4. Running of Event

a. Pre-Operational Check

This is **not** assessed. Teams will have the opportunity to check and be familiar with all equipment that they have available to use in the event. They can talk and discuss while checking equipment for operational use. Equipment must be left with in the designated tool dump area.

This section of the event is to be completed prior to the commencement of the event on the track and will be supervised by Rescue trainers.

Once the equipment has been checked, all items are then deemed to be operational. If while using tools as part of the event a tool doesn't operate correctly due to the condition it was left after inspection, it is said to be operational and no option for a re-run will be granted.

NB Tools cannot be preconnected to power source until the event commences.

b. Track Evolution Safety

During the on-track evolution, judges will call "safety stop" whenever a competitor is working in an unsafe manner, such as helmet visor not in correct position, not operating RIK pump using handgrip, incorrectly handling RIK tool, running in slalom or other "at risk" activities that may be observed.

On start signal all six competitors will start on the start line and proceed to the Knot Bar of the evolution.

c. Knot Bar

The knot component of this event will be performed first, and no competitor will move onto the next evolution until all four knots are completed and the competitor feels they are correct. The knots will be judged, after the competitor proceeds to the next evolution and competitors shown any incorrect knot tying at the completion of the event.

Each competitor will be required to complete a randomly drawn knot from the 4 knots allocated. This will be determined by drawing a ping pong ball from a bag and the knot written on that ball will be the knot that the competitor is required to complete.

OR

Option for selection of knot will be to provide a scenario to each competitor and that person, from their knowledge will select one knot that they feel is the most appropriate required for the scenario provided.

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

d. Combi Tool

Teams will be required to collect all equipment from the Toll Dump and carry equipment to the task location and assemble ready for safe use.

One member will operate the hydraulic pump and other member will operate the Combi tool.

Pump operator will start pump and on command from tool operator of “power on” or “power off”, open or close the hydraulic valve from the pump to tool hydraulics. On command of power off, the pump operator will close hydraulic valve, then stop pump engine using stop button on pump motor.

The second member of the Combi tool crew will take hold of the Combi tool. Once the operator has control of the tool “power on” command is given.

The tool operator will proceed to fully open jaws (Denoted by sound of pressure relief valve), then in the closing mode, cut marked section of pipe. The pipe designates a barrier that cannot be passed until removed from the pathway.

The tool operator will then close jaws so daylight may be seen through gap but not greater than thickness of offcut piece of steel. (provided) The tool will then be placed in the designated position on the ground. (After use tool dump)

Equipment may remain connected after use, as long it is in the designated area.

e. RIK

One member will operate hydraulic hand pump and the other the RIK tool. The pump operator will open air vent on pump body, close wheel valve on delivery end of pump & unclip handle and on command of “power on”, operate pump handle using hand grip on pump lever only. On command from RIK operator of “power off”, the wheel valve is closed, the pump handle is re-clipped and when RIK tool is docked, the air valve is closed.

The RIK operator will pick up tool and using mallet provided, insert tool toe in door and give command “power on”. When timber breaks and door can be opened, operator gives command “power off” then docks the tool and places it in the designated area marked.

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue: March 2021

Document Owner: Firefighter Championships Association

Current Version: V1.1 EXEC OFF30 January2024

Page 6 of 10

Review By: 30 January 2025

f. Stokes Litter & Patient Packaging

Patient Packaging (Team of six)

The other two members (not involved in RIK / Combi) will proceed direct to the stokes litter and patient once access past the doorway has been given.

NB a live patient (volunteer) will be available for this scenario.

Members will proceed to package the patient, place on a spine board, with a head support (Blanket) and secure with strops provided within the stocks litter.

Patient to be loaded onto the spine board and placed in the stokes litter. (NB there is no scoring on medical approach, only the packaging of the patient.)

Packaging must secure the patients shoulders, hips and feet, including enough support to ensure the patient cannot move or slide within the litter.

Straps are to be connected in 3 minimum locations as per diagram.



NB this is a live patient scenario, so safety and security if paramount.

FRNSW Supplied Stokes and spine board 4 straps (Non vertical rescue scenario)

Once 6 members of the team are at the stokes litter, they will lift the stokes (Command of “Prepare to Lift...Lift”), then proceed through the slalom course, place down on the mark (Command of “Stop – Prepare to lower – Lower”) whereupon one member will proceed to the finish line and strike the bar to stop their time.

Running is not permitted. No barrier can be knocked over (safety stop).

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue:

March 2021

Document Owner: Firefighter Championships Association

Current Version: V1.1 EXEC OFF30 January2024

Page 7 of 10

Review By:

30 January 2025

The team with the lowest time from event run and penalties from pre-op and knot bar combined will be declared the winner.

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue: March 2021

Document Owner: Firefighter Championships Association

Current Version: V1.1 EXEC OFF30 January2024

Page 8 of 10

Review By: 30 January 2025

Penalties

P10 – Rescue Event		
<i>Cordage Section</i>		
A)	Life knots tied incorrectly	10 Seconds
B)	Life knots packed incorrectly	5 Seconds
C)	General knots tied incorrectly	5 Seconds
D)	General knots packed incorrectly	5 Seconds
E)	Selecting the incorrect knot	5 Seconds
<i>Combi Tool Section</i>		
F)	Operator not in control of tool when giving command for power on	2 Seconds
G)	Not fully opening the Combi jaws prior to cutting	10 Seconds
H)	Not returning the combi tool jaws to the park position (the gap being daylight through jaws & not more than thickness of off cut piece of steel) Daylight and 5mm	10 Seconds
I)	Not turning off the hydraulic valve before stopping the pump	5 Seconds
J)	Not returning equipment to designated area (Leave gear in a safe marked area before leaving task)	10 Seconds
<i>RIK Section</i>		
K)	Not opening the wheel valve &/or close the hydraulic valve before operating the pump	2 Seconds
L)	Not using hammer to insert door opener	2 Seconds
M)	Not operating pump using hand-grip on pump handle.	10 Seconds
N)	Door Opener operator not giving the correct commands (Power On, Power Off.) (Operator not in control of tool when giving command for power on)	2 Seconds per command
O)	Not opening the hydraulic valve, &/or closing the air valve &/or locking the handle down when stowing the pump after use	2 Seconds
P)	Not returning equipment to designated area (Leave gear in a safe marked area before leaving task)	10 Seconds
Q)	Door opener not returned to park position correctly	10 seconds
<i>Stokes Litter Section</i>		
R)	Not Use spine board for patient packaging	30 seconds
S)	Any competitor straddling the stokes litter	5 Seconds
T)	Not giving the correct commands (Prepare to lift – Lift)	5 Seconds
U)	Knocking over any of the posts (including bumping barriers)	5 Seconds
V)	Not giving the correct commands (Stop – Prepare to lower – Lower)	10 Seconds
W)	Not placing the stokes litter in the designated area (across finish line and placed with commands	10 Seconds

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

X)	Running while carrying Stokes Litter	10 Seconds
Y)	Not wearing PPE for entire event.	10 Seconds
Z)		
<i>Patient Packaging</i>		
A2)	Head not supported with a blanket or similar provided	10 Seconds
A3)	Feet not secured together	10 Seconds
A4)	No stop support at feet used, to ensure patient will not slide within the litter (blanket or similar)	10 Seconds
A5)	3 points of support straps not used (shoulder, hips, lower legs)	10 Seconds
A6)		

Warning – Uncontrolled when printed! The current version of this document is kept on the NSWRCRC website.

Authorised by NSW State Road Crash Rescue Challenge Organising Group

Original Issue: March 2021

Document Owner: Firefighter Championships Association

Current Version: V1.1 EXEC OFF30 January2024

Page 10 of 10

Review By: 30 January 2025