



South Australian Country Fire Service

South Australian
Volunteer Fire Brigades Association

FIRE FIGHTING DRILL COMPETITIONS HANDBOOK

Rules and Conditions

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Rules and Conditions

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GENERAL COMPETING CONDITIONS

1. COMPETITORS

Competitors shall be registered members of the S.A. Country Fire Service.

Unless otherwise stated, any number of teams, or competitors in individual events, may take part in all Regional Competitions.

Visiting competitors are unable to win Regional titles.

Competitors may represent only their own brigade unless permission is granted by the Chief Judge.

2. REGULATION COMPETITION UNIFORMS

All competitors shall wear approved C.F.S. overalls, boots and helmets. There are three approved styles of boots as illustrated on page 2a. Except as otherwise stated, overalls will be buttoned at the sleeves and to within two buttons of the collar.

Competitors must commence and finish all drills in full uniform including helmet chinstrap under chin.

Dress for cadet events and opening parade shall be C.F.S. overalls, helmets and sturdy footwear or sneakers.

3. RESPONSIBILITIES OF OFFICER IN CHARGE

The Senior member in charge of Brigades competing in C.F.S. Competitions is responsible for:

- the bona-fide qualifications (membership and grade) of their competing members
- ensuring that Captains of teams are competent for the task
- ensuring that teams are ready to compete when called upon
- ensuring that Brigade members are capable of carrying out their duties in each drill without subjecting themselves to undue strain or injury
- ensuring that no alcohol is carried onto, or consumed on the oval by Brigade members

4. **CHIEF JUDGE**

The Chief Judge shall be a volunteer member of the south Australian Volunteer Fire Brigades Association Competitions Committee. The chief Judge may co-opt other members of the SAVFBA Competitions Committee to assist in determining the outcome of any protest lodged.

The Chief Judge may hear evidence from the Team Captain lodging a protest, the Event Marshal, and the Assistant Judges from the point where the dispute occurred. The Chief Judge may call on any person to assist.

5. **JUDGES' DECISIONS AND SUPPLEMENTARY PENALTIES**

Drills must be carried out as laid down. Additional penalties may be added by the Chief Judge for any irregularity in drill procedure. Crews not adhering to Regulations and Drill Movements as laid down may be disqualified. The Captain of a team may enter a protest with the Event Marshal not later than five minutes after the conclusion of the event concerned. The Chief Judge shall have the power to re-run any competitions deemed necessary. The decision of the Chief Judge shall be FINAL. The Chief Judge shall have the power to limit the number of competitors. Offensive behaviour or language may cause disqualification of any member, or team, from all events in any competition.

6. **CFS HEADQUARTERS ADVICE**

Contact your Regional Officer in connection with any queries or competition drills and regulations.

7. **NOMINATIONS**

Nominations are required for all events prior to the day of the competitions. Late nominations will be accepted on the day at the discretion of the Chief Judge. Nomination forms are available from Regional or State headquarters. Verification of nominations shall be done prior to the commencement of the opening parade.



BOOTS

Three types of boots are approved for the competitions. They are:

1. Work boots with leather ankle length uppers;
2. Fireman's boots with calf length leather uppers; and
3. "Rubber" calf length boots (usually made of PVC).

8. **HOSE LADDER AND PUMP DRILL CHAMPIONSHIP**

Regional and State Hose Ladder and Pump Drill Championships will be awarded to the team with the lowest aggregate score in the following events:

Dry Hose Drill
Pump Drill
Four Man Ladder Drill

9. **DRY HOSE DRILL**

Teams entered in the Dry Hose Drill will carry out the three movements of the Dry Hose Drill, placing the branch in the timer to complete the Drill.

10. Cadets must be under 16 years of age on 1st July.

11. **EQUIPMENT**

- (a) Hose and equipment for each event will be prepared by a special working party and be placed in the required positions under the direction of the Event Marshal.
- (b) If any competitor tampers with hose or equipment they will be disqualified.
- (c) Crew members will be required to assist the working party to clear the track at the completion of their drill. Penalties will be incurred for failure to clear hose from track as requested by Judges or Marshals.

12. **ASSEMBLY AREAS**

An assembly area will be nominated for each event. Teams and individual competitors are to report to the Assembly Area Marshal for their respective event when called to do so.

PARADE DISCIPLINE

Brigades will be assessed at Opening Parade for discipline and appearance. Brigades are expected to be neat and tidy in appearance and to line up and execute movements smartly. Standard dress for the Opening Parade for all Brigade Members (Including Officers) will be C.F.S. overalls, helmet and footwear in accordance with Uniform Regulations (Fireman's or other sturdy boots). The minimum crew size to be eligible to compete in this event is an Officer in Charge plus three Brigade Members.

DRILL SEQUENCE

Members will assemble 5 minutes prior to the commencement of Parade. The oval will be marked indicating positions for Brigade markers. Markers will be called. Brigades will then fall in as directed below with the Officer in Charge standing in front. Parade will then be brought to attention and then instructed as follows:

- 'Parade will dress by the right - Right Dress'
- 'Eyes Front'
- 'Parade, Stand at Ease'
- 'Parade, Attention'

The Parade Marshall will stand Parade at ease and hand Parade to the Master of Ceremonies.

Following the Official Opening the Parade will be brought to attention and the order given: 'To your duties, Fallout'. Parade will then all turn to the right and proceed to their duties.

Brigade Members will assemble in the following patterns according to the number present on Parade.

		DAIS					
	o	o	o	o	o	o	
.M	. M	. . M	x x M	x x M	x x M	x x M	
etc		x		x	x x	x x x	
1 member	OIC+1	OIC+2	OIC+3	OIC+4	OIC+5	OIC+6	
	o - OIC		M - Marker		x - Brigade Member		

MARCH AND PARADE

The march for the Competitions will be led by the Colour Party selected from the previous years champion brigade - Senior C.F.S.Officers (Volunteer and Permanent) and then in Regional order (1-6) followed by Judges and Marshals.

The parade will march past the saluting Dais and form up in line under the direction of the Parade Marshal.

DAIS

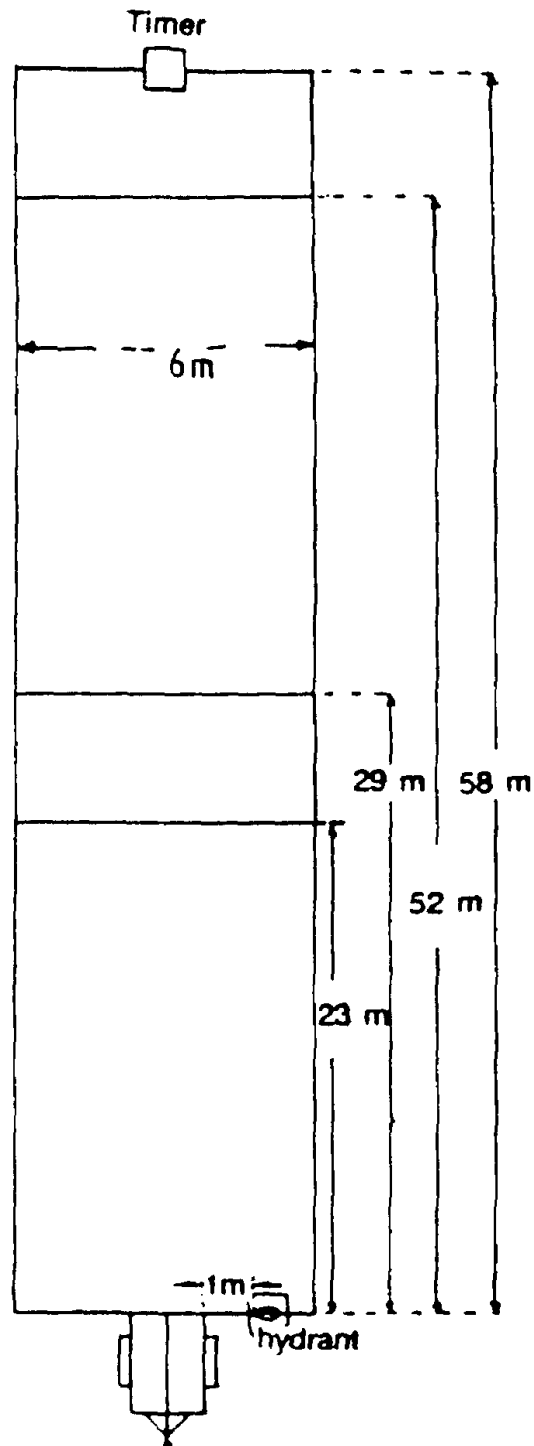
^o OIC R6	^o OIC R5	^o OIC R4	^o OIC 53	^o OIC 52	^o OIC R1
x x x x x	x x x x x	x x x x x	x x x x x	x x x x x	x x x x x
x x x x x	x x x x x	x x x x x	x x x x x	x x x x x	x x x x x
x x x x x	x x x x x	x x x x x	x x x x x	x x x x x	x x x x x

x - Brigade Member

Medals

Medals may be worn on uniforms (Including overalls) for the march at the Competitions.

DRY HOSE DRILL



DRY HOSE DRILL

1. DESCRIPTION OF DRILL

Summary:

Crew of 5 including Captain, extend a 30 metre hose length from the trailer.

An additional 30 metre hose is then added to the branch end of the initial hose.

The branch end hose is then deemed to be damaged and is replaced with an additional hose procured from the trailer.

The drill will be run in three (3) continuous movements.

1.1 First Movement - 'Get to work with a line of hose.'

Movement commences on Starters signal, Marshal drops flag, Captain blows whistle.

One length of 64 mm~ hose is extended from the hose trailer to the 20 metre line.

Standpipe and turncock key shipped and the hose connected. All calls completed.

1.2 Second Movement - 'Add a length-branch end.'

Movement commences when Captain blows whistle.

Second length of 64 mm hose is obtained from the hose trailer, added to the first length and extended to the 58 metre line.

All calls completed.

1.3 Third Movement - 'Replace damaged length-branch end.'

Movement commences when Captain blows whistle.

Third length of 64 mm hose is obtained from the hose trailer and used to replace the damaged length at the branch end.

All calls completed.

Knots tied in both ends of damaged length of hose.

2. **CREW**

The crew consists of a Captain and four (4) crew members.

3. **UNIFORM**

All crew members will wear approved C.F.S. overalls and helmets. Footwear as detailed in Competing Conditions.

4. **PENALTIES**

Each infringement of a rule will incur a four (4) second penalty.

5. **GENERAL INSTRUCTIONS TO CREWS**

- 5.1 Any firefighter (excluding cadets) may act as the Captain for any number of crews from their Brigade and also run as a crew member in one (1) dry hose drill team.
- 5.2 Any cadet who competes in the Dry Hose Drill is ineligible to compete in the Cadet Dry Hose Drill in the same competition.
- 5.3 The 23 and 52 metre markers indicate where the 'Knock Off' call is to be given when adding and replacing lengths of hose.
- 5.4 The width of the track is six metres.

6. RULES OF DRY HOSE DRILLS

6.1 Calls

Calls of 'Ready One', 'Turn On' and 'Knock Off' must be loud and clear and distinct enough for all crew members and judges to hear and understand.

Omitted, premature or incorrect calls will incur penalties.

6.2 Hose Box

Hose will be flaked into the box by a special working party, in the regulation manner and the box placed in the right hand compartment of the hose trailer, i.e., female coupling of hose connected to the short feeder length placed firstly in the hose box, the remainder of the hose to be fed in, in the form of long flakes or folds on its flat surface until all hose is neatly stored.

All of the short feeder length will be flaked into the hose box.

All lengths will be coupled to each other.

The final male coupling will be connected to the branch ready for running.

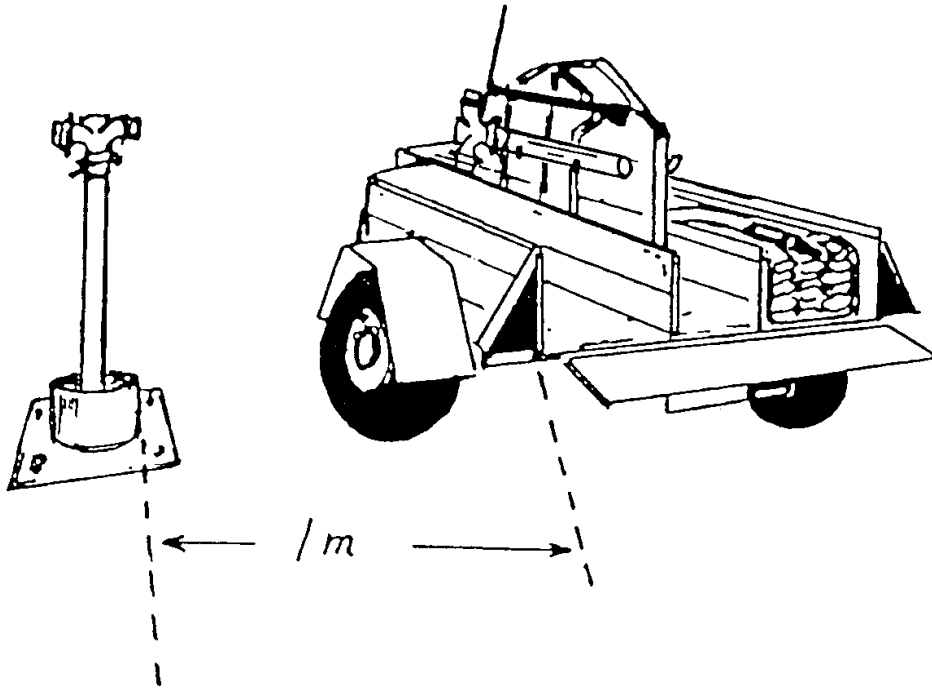
The branch nozzle will be in line with the rear of the hose box, not protruding.

Couplings of hose in the hose box will be taken tight, and then freed off until the lugs are parallel for the first time.

Couplings will be placed in a central position fore and aft in the hose box (as per diagram). Refer Appendix A for Hose flaking Instructions.

6.3 Fire Plug Chamber and Equipment

Fire plug chamber to be one (1) metre from the left side of the hose trailer and the standpipe, when shipped is to be in line with the rear of the hose trailer. (See diagram)



Wooden block to be placed in the fire plug outlet to represent an obstruction.

Plate cover key to be placed on the extinguisher ledge, the left side of hose trailer, not protruding over edge of ledge.

Turncock key to be placed in the top brackets.

Standpipe to be placed in the bottom brackets so that the shank only rests in the bracket hooks

The standpipe and turncock key can be handed to No. 4 or placed on the ground so as not to be in contact with the hose trailer. No. 3 must not place the base of the standpipe inside the fire plug chamber.

6.4 Firemanship Discipline

6.4.1 Dropping of Equipment

It is considered bad firemanship to drop equipment. Equipment must be placed, not thrown, onto the ground, or into the hose box. Penalties will be incurred where the branch, standpipe or couplings are dropped.

Equipment will be considered 'dropped' if it comes into contact with the ground or contents of the hose box and is not in contact with the crew member's hand.

The turncock key, plate cover key and plate cover are undamageable and a penalty will not be incurred if these are accidentally dropped.

Penalties will be incurred for dangerous or unsafe practices such as throwing the plate cover.

6.4.2 Standpipe must be hand tight in fire plug.

No movement of the standpipe in the lugs of the fire plug to be evident to the judge(s) when tested in the approved manner.

Refer Appendix B.

6.4.3 Head of standpipe shall be turned in a clockwise direction. Turning the standpipe head in an anti-clockwise direction will incur a penalty.

6.5 Couplings

When making or breaking hose to hose couplings, the crew member shall face the source of supply and straddle the hose.

The female nut only shall be turned and the female cuff or shank shall be in contact with both thighs, above the knees to prevent twisting of the hose.

A partial turn on the male coupling shall be permitted to assist in marrying the threads.

Couplings made or broken below the level of the knees will incur a penalty.

When making coupling at the standpipe, the shank of the female coupling shall be held by the hand and the female nut only turned. The hose need not be straddled.

All hose couplings must be hand tight.

No movement evident to the judge(s) when tested in the approved manner. Refer Appendix B.

6.6 **Branch**

When connecting branch, place one foot on the shank of the male coupling to raise the threads clear of the ground.

Grasping the branch, with one hand on the nozzle and one hand on the shank, connect the branch to the male coupling by turning it in a clockwise direction until it is tight.

No movement evident to the judge(s) when tested in the approved manner. Refer Appendix B.

The branch must be tightened in this manner and not when the crew -member is running with the hose.

When disconnecting branch, place one foot on the shank of the male coupling to elevate the branch. Grasping the branch with both hands on the shank remove the branch by turning it in an anti-clockwise direction.

6.7 **Hose**

Hose must be run from hose trailer flake after flake.

The taking of more than one (1) flake will incur a penalty.

Any full twist in the hose caused by faulty making or breaking couplings or branch will incur a penalty.

Hose which can not be pulled out straight from the branch end at the completion of the drill is fouled, and will incur a penalty. Except the Captain, any crew member may clear the hose to prevent --fouling prior to completion of the drill.

Fouling of the hose at the branch end when placing branch in electrical contacts is exempt from penalty.

All surplus hose and couplings must be in the hose box before the end of each movement.

Any hose or coupling outside of the hose box at the end of a movement will incur a penalty.

To check knots the judge(s) will pick up the damaged length above the knot and lift the knot and coupling clear of the ground.

The knot must remain tied and be clear of the exposed metal part of the coupling.

7. RULES FOR CREW

7.1 Captain

Ensure that all equipment is correctly placed prior to commencement of drill.

Responsible for ensuring that the crew members are correctly dressed prior to commencement of drill.

Responsible for checking times of drill and/or crew penalties.

Responsible for lodging protests with Marshal within five (5) minutes of finish of drill.

Captains ONLY may discuss penalties and/or protests with Marshal.

Responsible for crew being ready when called.

Knowing timing of events, crews not ready may be penalised four (4) seconds or disqualified.

Captain must not assist manually and must stand clear when the drill is in progress.

Captain may give advice or instructions to the crew when they are carrying out drill movements.

7.2 No. 1

In the second and third movements, No. 1 must not place the branch on the ground to uncouple until the call of 'Knock Off' has been given by No. 4.

Squatting by No. 1 will not be permitted.

Branch must be held above knee level.

In the third movement No. 1 must stand erect, with the branch held above knee level, prior to placing the branch in the contacts.

No. 1 leaves branch in contacts at completion of drill to allow judge(s) to check for penalties.

7.3 No. 2

At the first and second movement completion No. 2 must be at the branch and touching body of No. 1 with his hand to signify 'at the branch end'.

In the second and third movements No. 2 must not leave the branch end until No. 3 leaves the hose trailer with both couplings of the new length of hose.

In the third movement, No. 2 on arrival at the centre coupling, must not touch the couplings or main line of the hose until No. 1 calls 'Knock Off'.

7. **RULES FOR CREW** cont....

7.4 No. 3

In the first movement No. 3 must not place the base of the standpipe in the fire plug chamber.

At the end of the first and second movement, No. 3 will not stay at the standpipe and 29 metre marker, but will return to the hose trailer and prepare to commence the next movement of the drill.

In the third movement, No. 3 must hand (*not throw*) the female coupling to No. 2.

7.5 No. 4

In the first movement No. 4 must place the turncock key on the fire plug spindle and have both hands on the turncock key cross arm prior to and during calls 'Ready One' and 'Turn On'.

In the second and third movements No. 4 must have both hands on the turncock key cross arm prior to and during calls of 'Knock Off', 'Turn On'.

In all movements No. 4 must have both hands on turncock key cross arm when the Captain blows the whistle for commencement of next movement and also when Marshal drops flag for end of drill.

8. **RULES**

Captain and crew of each team will report to the Dry Hose Drill Assembly Area when called to do so and form up in their running order as per the program under the direction of the Assembly Area Marshal.

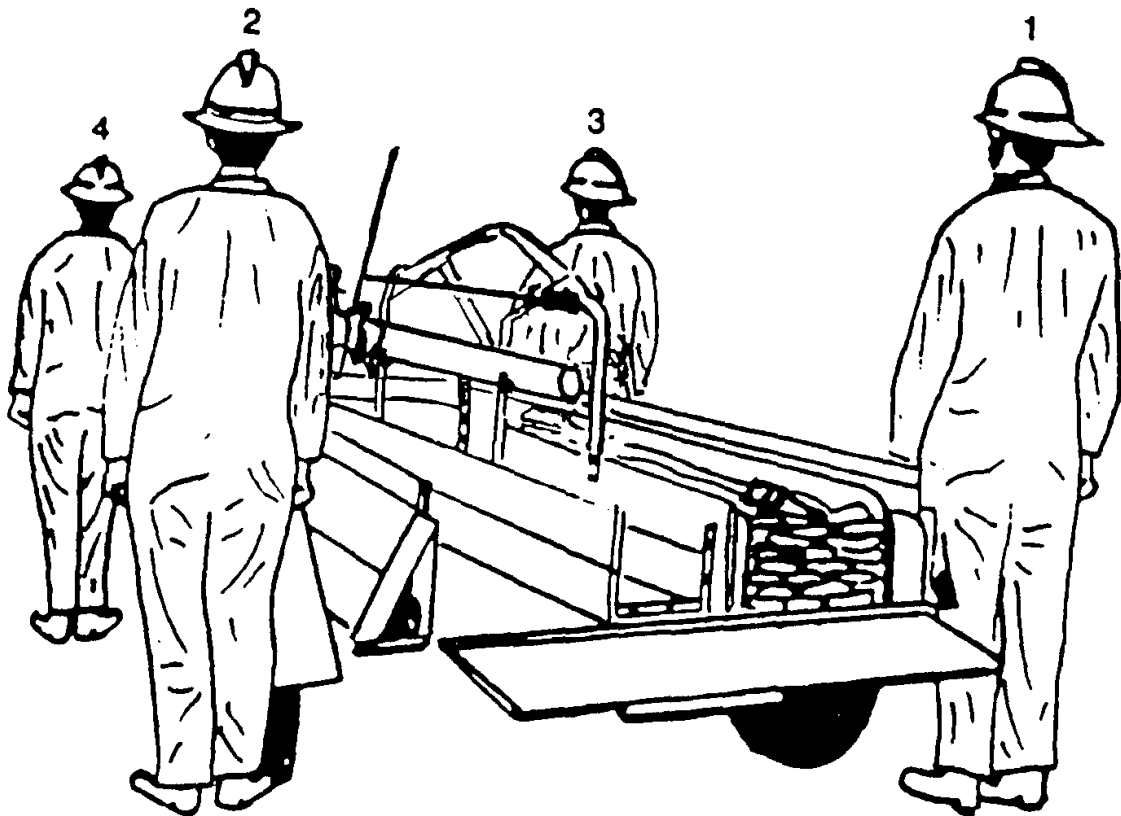
When the Event Marshal is ready for the next team the Assembly Marshal will instruct the Captain to order the crew to 'Take Post'.

When the crew have taken up their respective positions the Captain will report to the Event Marshal, 'Team ready'.

8. **RULES** cont...

'Take Post'

Crew takes up following positions:
No. 1 to the right side rear of trailer
No. 2 to the left side rear of trailer
No. 3 to the right Side front of trailer
No. 4 to the left Side front of trailer



View from running track of Start positions for Dry Hose Drill.

When the crew have taken up their respective positions, the Captain will report to Marshal 'Team Ready'.

8 **RULES** cont...

The Marshal, when satisfied that the Timekeeper(s) and Judge(s) are ready, will order the team Captain to 'Stand By' and raise the starting flag to indicate to Timekeeper, ready to start drill.

The Timekeeper(s) will push the start button activating starting signal and electrical timing. Crew will get to work on starting signal.

Captain blows whistle.

Marshal drops flag.

First Movement.

- No. 1 Takes the branch and proceeds to the 29 metre line.
When at or past the 29 metre line and being touched by No. 2 On the call of 'Ready One' by No. 4; calls 'Turn On'
- No. 2 Assists No. 1 and proceeds to the 29 metre line
Must be touching body of No. 1 with a hand to signify 'at the branch end', when No. 1 calls 'Turn On' and when whistle sounds to commence second movement.
- No. 3 Provides the standpipe and turncock key for No. 4
Assists with the clearing of the hose
Breaks coupling in the regulation manner
Replaces hose and coupling not used in this movement into the hose box
Connects the female coupling to the standpipe and tightens
Returns to the trailer
- No. 4 Procures plate cover key
Removes plate cover and places on ground
Removes obstruction from plug
Ships standpipe
Ships turncock key
When No. 3 has taken first turn on coupling on standpipe, with both hands on cross arm of turncock key calls 'Ready One'
With both hands on cross arms of turncock key repeats No. 1's call of 'Turn On'

- Note - Before commencing second movement.
- No. 1 At or past the 29 metre line and has called 'Turn On'
- No. 2 At the branch end, touching body of No. 1 with hand
- No. 3 Hands clear of coupling and all duties complete
Returns to hose trailer as soon as practicable
- No. 4 Both hands on cross arm of turncock key and repeated No. 1's call of 'Turn On'.

Second Movement.

- No. 3 Commences clearing hose and assisted by No. 4 procures a length of hose from the hose trailer
With a coupling in each hand proceeds to the branch end
Lays the male coupling for No. 1
Couples the female coupling of the new length
Calls 'Ready One' when a turn on the male coupling has been made.
Hardens coupling (hand tight) and places on ground
Returns to hose trailer
- No. 4 Breaks coupling at the hose trailer in regulation manner
Hands female coupling to No. 3
Replaces hose and coupling not used in this movement back into hose box
Returns to turncock key
With both hands on cross arm of turncock key repeats 'Knock Off' and 'Turn On' when called by No. 1.
- No. 1 Calls 'Knock Off' when No. 3 is past the 23 metre line
Disconnects branch in the regulation manner
Connects branch in the regulation manner to the new length supplied by No. 3
Tightens branch (hand tight)
Proceeds to the 58 metre line
If at, or past the 58 metre line and being touched by No. 2 on call of 'Ready One' by No. 3 calls 'Turn On'.
- No. 2 Leaves branch end after No. 3 leaves hose trailer
Assists No. 1 with hose
Must be touching body of No. 1 with hand to signify 'at the branch end' when No. 1 calls 'Turn On' and when whistle sounds to commence third movement.

- Note - Before commencing third movement
- No. 1 At or past the 58 metre line and called 'Turn on'
- No. 2 At branch end touching body of No. 1 with hand
- No. 3 Hands clear of couplings and all duties completed
Returns to hose trailer as soon as practicable
- No. 4 Both hands on cross arm of turncock key and repeats No. 1's call of 'Turn On'

Third Movement.

- No. 3 Commences clearing hose and assisted by No. 4 procures a length of hose from the hose trailer.
On arrival at the centre coupling, the female coupling of the new length is handed to No. 2
Continues to the branch end with the male coupling
Places male coupling on ground for No. 1
Ties an overhand knot at the end of the damaged length.
- No. 4 Breaks coupling at the hose trailer in regulation manner
Replaces hose and coupling back into hose box
Returns to turncock key
With both hands on the cross arm of the turncock key, repeats 'Knock Off' and 'Turn On' when called by No. 1
- No. 2 Leaves the branch end after No. 3 leaves the hose trailer
Proceeds to centre coupling at 29 metre line and takes the female coupling of the new length from No. 3
After call of 'Knock Off' by No. 1 uncouples damaged length in regulation manner
Couples new length in regulation manner
When No. 2 has taken first turn on male coupling calls 'Ready One'
Hardens coupling (hand tight) and places on ground
Ties overhand knot at the end of the damaged length
- No. 1 Calls 'Knock Off' when No. 3 is past the 52 metre line
Disconnects the branch in the regulation manner
Connects the branch in the regulation manner to the new length supplied by No. 3
Tightens branch (hand tight)
Calls 'Turn On' after No. 2 has called 'Ready One'
After No. 2 and No. 3 have completed tying knots and No. 4 has repeated 'Turn On', places branch in electrical contacts on 58 metre line so that nozzle of branch is in advance of 58 metre line.

Third Movement cont...

Marshal drops flag when branch is placed in electrical contacts and timed drill is completed. Crew members must then stand loosely at attention awaiting instructions to the Captain from the Marshal, to 'Knock Off/Make Up'.

Captain gives two blasts on whistle.

No.1 calls 'Knock Off'/'Make Up'

No.4 repeats 'Knock Off'/'Make Up'

No.1 Uncouples the branch
Assists No. 2 and No. 3 to return hose and hose box to the hose flaking area
Return branch to the hose trailer

No.2 Breaks coupling

No.3 Unties knots
Returns hose to hose flaking area

No.4 Uncouples hose from the standpipe and assist No. 1, No. 2 and No. 3 to return hose to the hose flaking area.

Captain. Checks with the Marshal about penalties.

DRY HOSE DRILL PENALTIES

<i>Movement No.</i>	<i>Crew No.</i>	<i>Penalty No.</i>	<i>Penalty Description</i>
1	1	9	Dropped branch
		12	Taking more than one 'bight' of hose when clearing from the hose box
		15	Loose branch
		20	Calling 'Turn On' before reaching the 29 m and 58 m mark
		30	Premature or omitted call of 'Turn On'
1	2	12	Taking more than one 'bight' of hose when clearing from the hose box
		17	Failure to have hand on body of No. 1 to signify 'at the branch end'
1	3	1	Dropped standpipe
		2	Placing standpipe/turncock key in fire plug chamber for No. 4
		5	Loose coupling on standpipe
		4	Turning head of standpipe anti-clockwise
		10	Couplings not held in regulation manner (between the thighs and above the knees)
		11	Twisting hose when making or breaking couplings
		12	Taking more than one 'bight' of hose when clearing from the hose box
		13	Dropped couplings
14	Failure to replace hose and coupling not used in a movement back into hose box		
1	4	3	Loose standpipe
		4	Turning head of standpipe anti-clockwise
		6	Calling 'Ready One' before placing turncock key on fire plug spindle
		7	Not calling 'Ready One'
		19	Not repeating 'Turn On' and/or 'Knock Off'

<i>Movement No.</i>	<i>Crew No.</i>	<i>Penalty No.</i>	<i>Penalty Description</i>
		8	Not having hands on cross arm of turncock key for calls of 'Turn On' and 'Knock Off' and for commencement of second and third movements and at the completion of the drill
		27	Premature call of 'Ready One'
2	1	9	Dropped branch
		15	Loose branch
		16	Holding branch below knees (or squatting) before call of 'Knock Off'
		20	Calling 'Turn On' before reaching the 29 m and 58 m mark
		21	Premature or omitted call of 'Knock Off'
		23	Incorrect method of disconnecting branch
		24	Incorrect method of connecting branch
		30	Premature or omitted call of Turn On'
2	2	17	Failure to have hand on body of No. 1 to signify 'at the branch end'
		31	Leaving branch end before No. 3 leaves the hose trailer
2	3	10	Couplings not held in regulation manner (between the thighs and above the knees)
		11	Twisting hose when making or breaking couplings
		12	Taking more than one 'bight' of hose when clearing from the hose box
		13	Dropped couplings
		25	Not facing source of supply when making or breaking couplings
		26	Loose coupling
		27	Premature call of 'Ready One'
2	4	19	Not repeating 'Turn On' and/or 'Knock Off'

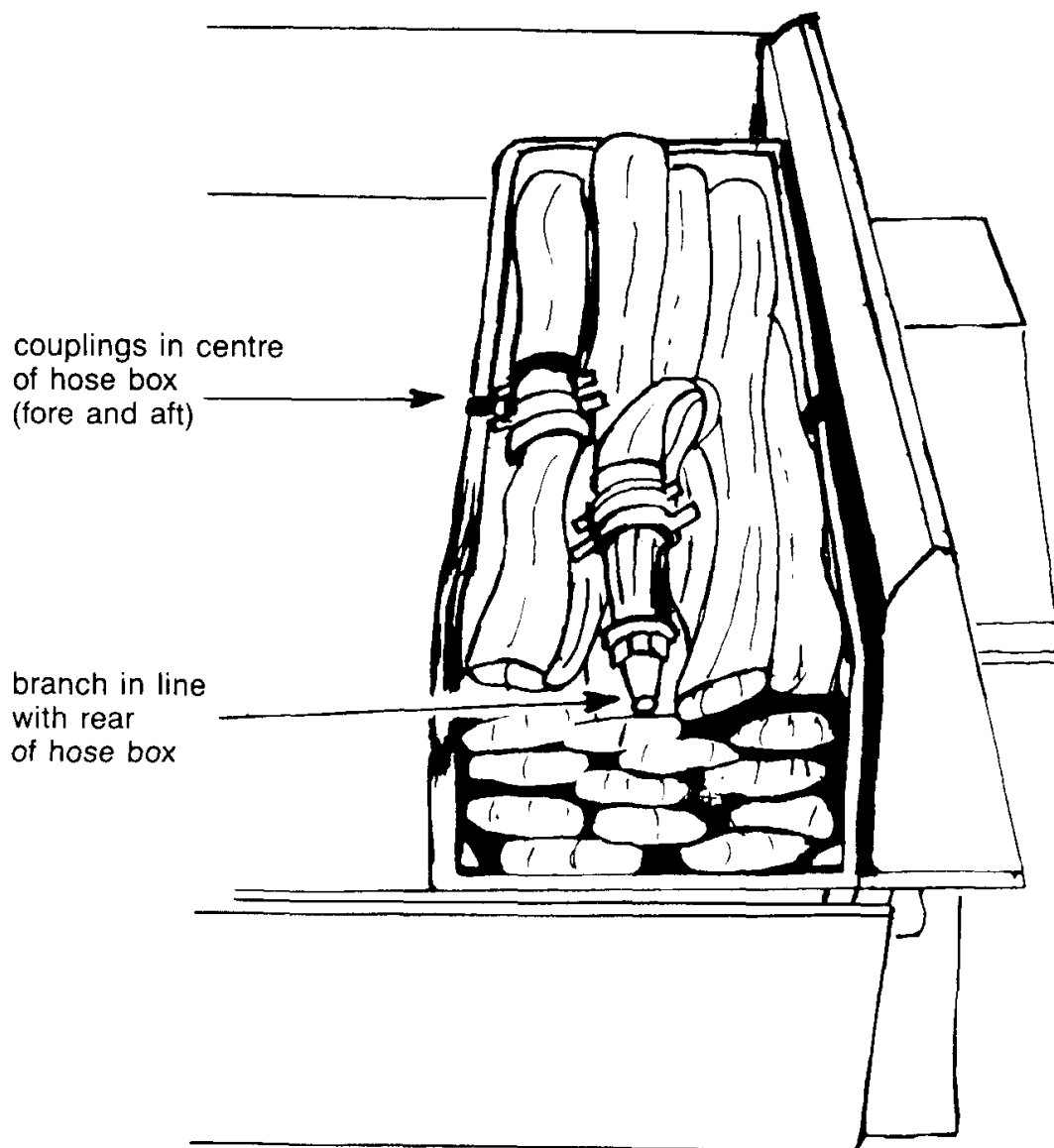
<i>Movement No.</i>	<i>Crew No</i>	<i>Penalty No</i>	<i>Penalty Description</i>
		8	Not having hands on turncock key for calls of 'Turn On' and Knock Off' and for commencement of second and third movements and at the completion of them drill
		10	Couplings not held in regulation manner (between the thighs and above the knees)
		11	Twisting hose when making or breaking couplings
		12	Taking more than one 'bight' of hose when clearing from the hose box
		14	Failure to replace hose and coupling not used in .a movement back into hose box
3	1	9	Dropped branch
		15	Loose branch
		16	Holding branch below knees (or squatting) before call of Knock Off'
		18	Fouled hose
		21	Premature or omitted call of 'Knock Off'
		23	Incorrect method of disconnecting branch
		24	Incorrect method of connecting branch
		29	No. 1 placing branch in electric timing block, before No. 2 and 3's hands are clear of couplings and all duties completed
		30	Premature or omitted call of 'Turn On'
3	2	7	Not calling 'Ready One'
		10	Couplings not held in regulation manner (between the thighs and above the knees)
		11	Twisting hose when making or breaking couplings
		13	Dropped couplings

<i>Movement No.</i>	<i>Crew No.</i>	<i>Penalty No.</i>	<i>Penalty Description</i>
		22	Touching centre couplings before No. 1 calls 'Knock Off'
		25	Not facing source of supply when making or breaking couplings
		26	Loose couplings
		27	Premature call of Ready One'
		28	Failure to tie knot or tying an incorrect knot in end of damaged hose
		29	No. 1 placing branch in electric timing block before No. 2 and 3's hands are clear of couplings and all duties are completed
		31	Leaving branch end before No. 3 leaves the hose trailer
3	3	10	Couplings not held in regulation manner (between the thighs and above the knees)
		11	Twisting hose when making or breaking couplings
		12	Taking more than one 'bight' of hose when clearing from the hose box
		13	Dropped couplings
		28	Failure to tie knot or tying an incorrect knot at end of damaged hose
		32	Throwing hose or coupling to No. 2
3	4	19	Not repeating 'Turn On' and/or 'Knock Off'
		8	Not having hands on turncock key for calls of 'Turn On' and 'Knock Off' and for commencement of second and third movements and at the completion of the drill
		10	Couplings not held in regulation manner (between the thighs and above the knees)
		11	Twisting hose when making or breaking couplings

<i>Movement No.</i>	<i>Crew No.</i>	<i>Penalty No.</i>	<i>Penalty Description</i>
		12	Taking more than one 'bight' of hose when clearing from the hose box
		14	Failure to replace hose and coupling not used in a movement back into hose box
1, 2 & 3	Captain	34	Captain assisting or touching equipment during drill
		36	Captain giving premature whistles
1, 2 & 3	Crew	33	Anticipating orders
		35	Crew not wearing approved uniform at commencement and completion of drill
		37	Competitors failing to clear hose from track

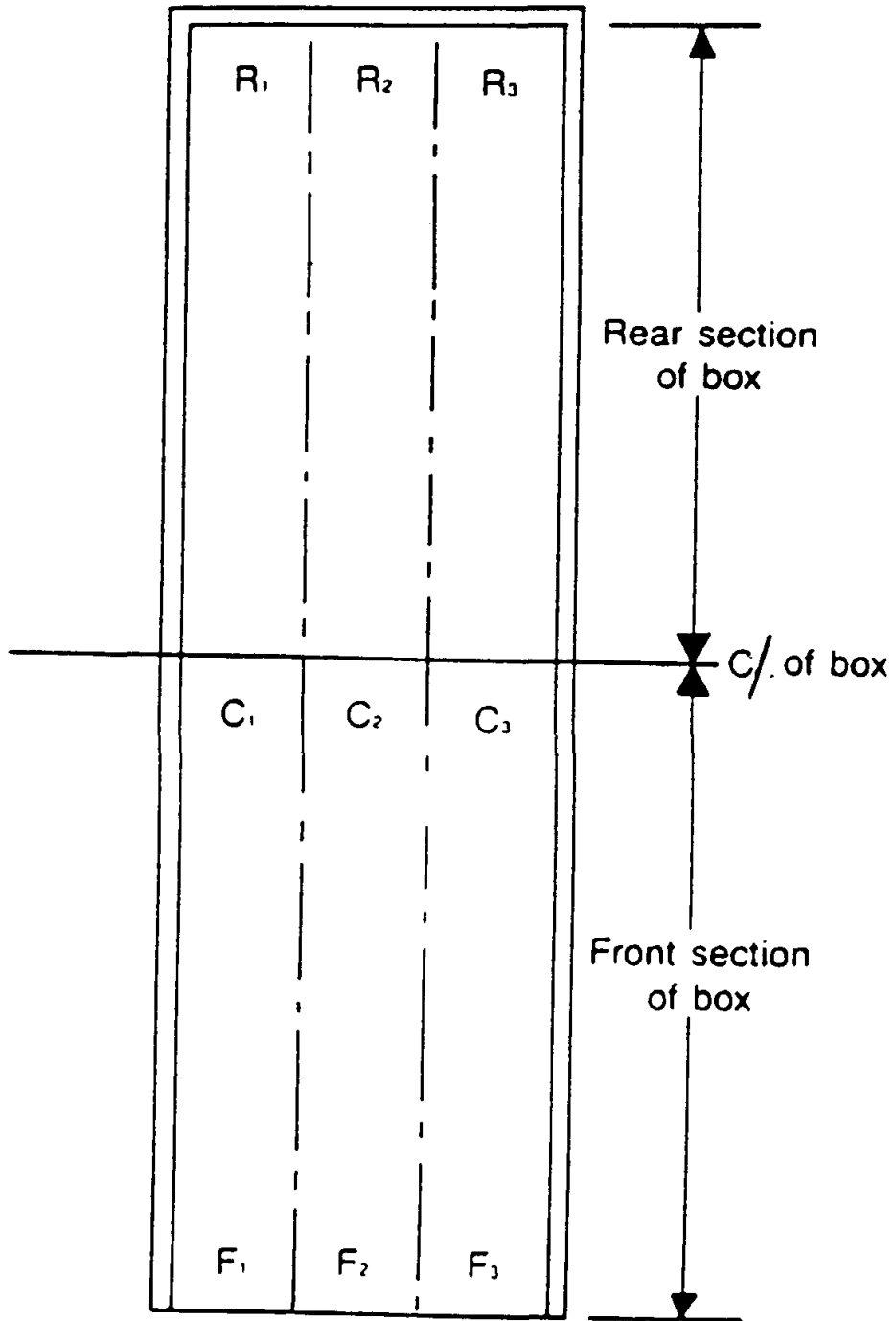
APPENDIX A

Hose flaking instructions



APPENDIX B

Diagram of hose box for flaking



COMPETITION HOSE FLAKING INFORMATION

Each crew to consist of 4 persons, appropriately identified.

Equipment required per crew:

- 2 hand wire brushes
- 1 pkt steel wool
- 1 pack of powdered graphite
- adequate supply of clean rags or equivalent
- container for above equipment

Hoses

Select 1 feeder length and the appropriate Dry Hose Drill hose lengths.

Preparation of hose couplings

With the exception of the feeder length female coupling, thoroughly wire brush all couplings. It is usually sufficient to wire brush each coupling only once prior to each competition and not each time that the hose box is reflaked with hose.

After wire brushing, polish each coupling with the steel wool, ensuring that all corrosion, dirt or imperfections are removed from the threads.

Wipe each coupling clean with the rag and then graphite behind the female coupling ring on each hose (not the feeder length).

Ensure that the female coupling ring on each hose spins freely.

The graphiting of the mating threads of each coupling is done during the flaking in process.

Hose Box

Select a hose box and ensure that the inside of the box is cleaned of any grass, stones, graphite powder etc. which could be flicked out of the box during the drill, causing injury or distraction to the competitors. Once the box has been cleaned, commence flaking in the hose.

Note: all hose to be flaked flat.

Flaking Procedure

Refer to diagram of hose box. Flake feeder length into hose box, commencing with the female coupling against the rear wall of the hose box and finish flaking with the male coupling at the C1 position.

- Any loose hose to be neatly flaked in short flakes in the rear section of the hose box behind the male coupling. Ensure that any section of hose, so flaked, will not foul the couplings when the hose is removed from the box.

Flaking in of third movement hose length:

- Graphite the mating coupling threads, being careful not to leave any graphite on the outside of the couplings or hoses.

- Connect the female coupling of the third movement hose length to the male coupling of the feeder length.

The correct alignment of these and other coupling connections is to take the couplings to hand tight and then to turn back until the lugs on the male and female couplings are parallel for the first time.

- Confirm with the flaking steward that the couplings are correct and then place the completed couplings in the hose box at the C1 position.
- The third movement hose length is now flaked into the hose box starting from the C1 position and flaked in as follows:

1 st	flake end to	F1
2 nd		R2
3 rd		F1
4 th		R1
5 th		F2
6 th		R2
7 th		F3
8 th		R3
9 th		F2
10 th		R2

and so on across the hose box until all the hose is flaked into the box.

- The male coupling must be placed at the C2 position at the completion of flaking.
- Any loose hose to be short flaked in the rear of the hose box as per detailed for the feeder length.

Flaking in of second movement hose length:

- Graphite the mating coupling threads being careful not to leave any graphite on the outside of the couplings or hoses.
- Connect the female coupling of the second movement hose length to the male coupling of the third movement hose length.
- Correctly align coupling lugs as previously described and check with flaking steward.
- Place the completed couplings in the hose box in the C2 position.
- Any loose hose to be short flaked in the rear of the hose box as per detailed for the feeder length.
- The second movement hose length is now flaked into the hose box starting from the C2 position and flaked in as follows:

1 st	flake end to	F2
2 nd		R3
3 rd		F2

4 th	flake end to	R2
5 th		F3
6 th		R3
7 th		F2
8 th		R2
9 th		F1
10 th		R1

and so on across the hose box until all the hose is flaked into the box.

- The male coupling must be placed at the C3 position at the completion of flaking.

Flaking in of the first movement hose length:

- Graphite the mating coupling threads being careful not to leave any graphite on the outside of the couplings or hoses.
- Connect the female coupling of the first movement hose length to the male coupling of the second movement hose length.
- Correctly align coupling lugs as previously described and check with flaking steward.
- Place the completed couplings in the hose box in the C3 position.
- Any loose hose to be short flaked in the rear of the hose box as per detailed for the feeder length.
- The first movement hose length is now flaked into the hose box starting from the C3 position and flaked in as follows:

1 st	flake end to	F3
2 nd		R2
3 rd		F3
4 th		R3
5 th		F2
6 th		R2
7 th		F1
8 th		R1
9 th		F2
10 th		R2

and so on across the hose box until all the hose is flaked into the box.

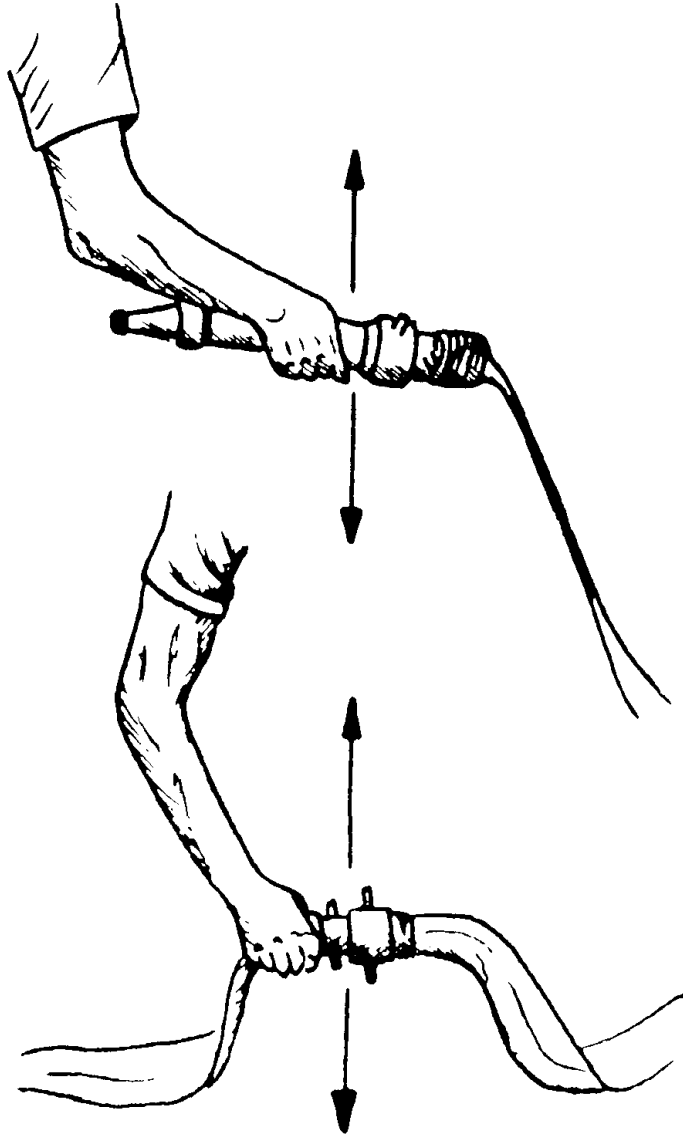
- The male coupling to be positioned in the front section of the hose box so that when the branch is attached to the male coupling, the front of the branch nozzle is in line with the front of the hose box.

APPENDIX C

Tightness Tests

To test the branch to male coupling for tightness, grasp the shank of the branch in hand (as per diagram) and shake up and down.

If rattling is audible between branch and hose coupling a penalty applies.



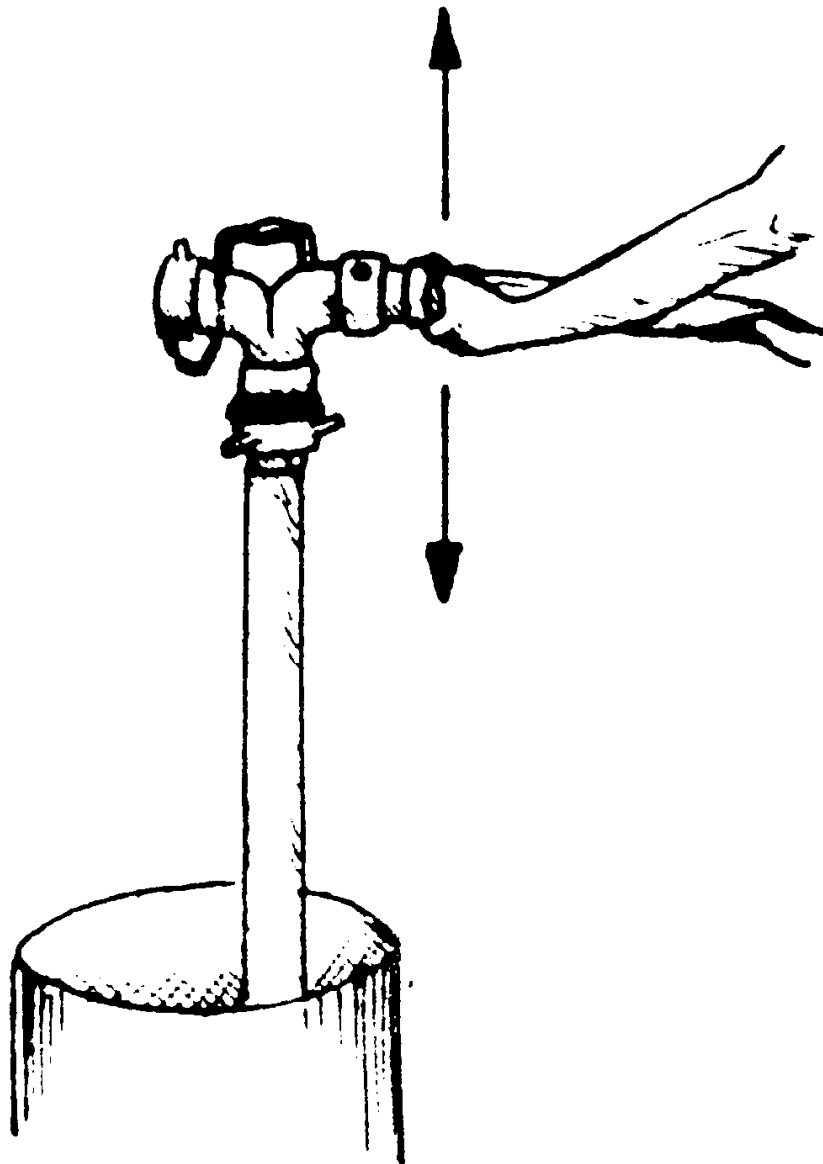
To test female to male hose couplings for tightness, grasp the shank of one coupling in hand as per diagram (above), and shake up and down.

If rattling is audible between male and female coupling, a penalty applies.

Tightness Tests cont...

To test female coupling to standpipe for tightness, grasp shank of female coupling in hand, as per diagram, and shake up and down.

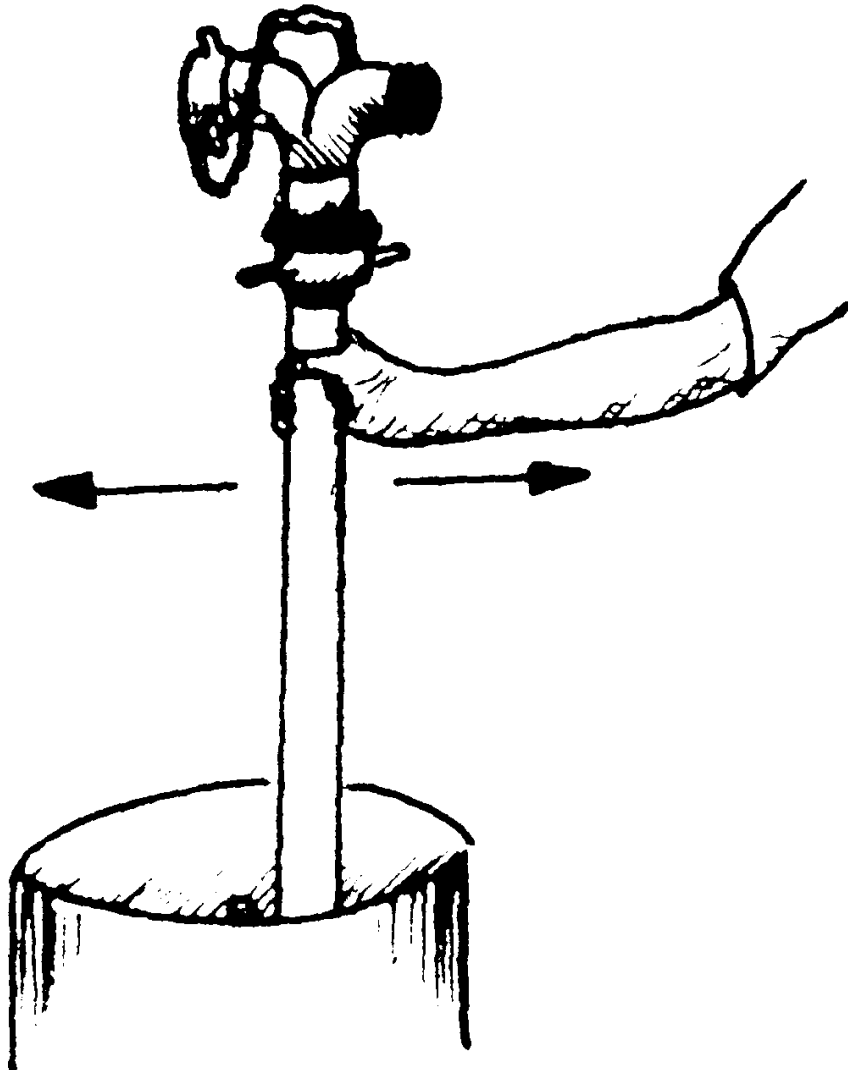
If rattling is audible between coupling and standpipe, a penalty applies.



Tightness Tests cont...

To test standpipe to hydrant plug for tightness, grasp shank of standpipe as per diagram and shake standpipe fore and aft.

If rattling is audible between standpipe and hydrant plug, a penalty applies.



CADET DRY HOSE DRILL

1. DESCRIPTION OF DRILL

Summary:

Crew of 5 including Captain, extend a 30 metre hose length from the trailer.

An additional 30 metre hose is then added to the branch end of the initial hose. The drill will be run in two (2) continuous movements.

1.1 First Movement - 'Get to work with a line of hose'.

Movement commences on Starters signal, Marshal drops flag, Captain blows whistle.

One length of 64 mm hose is extended from the hose trailer to the 29 metre line.

Ship Turncock key and connect hose to the standpipe.

All calls completed.

1.2 Second Movement - 'Add a length-branch end'.

Movement commences when Captain blows whistle.

Second length of 64 mm hose is obtained from the hose trailer, added to the first length and extended to the 58 metre line.

Branch is placed in the electrical contact to complete the drill.

2. CREW

2.1 The crew consists of a Captain and four (4) cadet members.

2.2 Cadets must be under the age of 16 years on 1 July each year to be eligible to participate in C Grade.

2.3 Cadets are eligible for all events, but any Cadet who competes in the Cadet Dry Hose Drill is ineligible to compete in any Senior Dry Hose Drill, in the same competition.

2.4 The Captain must be a Cadet.

3. UNIFORM

All crew members will wear approved CFS overalls, helmet and footwear as detailed in **Competing conditions**.

4. PENALTIES

Each infringement of a rule will incur a three (3) second penalty.

5. **GENERAL INSTRUCTIONS TO CREWS**

- 5.1 Crew members may represent only their own Brigade unless permission is granted by the Chief Judge.
- 5.2 A cadet may act as the Captain for any number of cadet teams from their own Brigade and also run as a crew member in one cadet dry hose drill team.
- 5.3 The 23 metre marker indicates where the 'Knock Off' call is to be given when adding the length of hose.
- 5.4 The width of the track is six metres.

6. **RULES OF CADET DRY HOSE DRILL**

6.1 **Calls**

Calls of 'Ready One', 'Turn On' and 'Knock Off' must be loud and clear and distinct enough for all crew members and judges to hear and understand.

Omitted, premature or incorrect calls will incur penalties.

6.2 **Hose Box**

Hose will be flaked into the hose box by a special working party in the regulation manner and the box placed in the right hand compartment of the hose trailer, i.e., female coupling of hose connected to the short feeder length placed firstly in the hose box, the remainder of the hose to be fed in, in the form of long flakes or folds on its flat surface until all hose is neatly stored.

All of the short feeder length will be flaked into the hose box.

All lengths will be coupled to each other.

The final male coupling will be connected to the branch ready for running.

The branch nozzle will be in line with the rear of the hose box, not protruding.

6.2 **Hose Box** cont...

Couplings of hose in the hose box must be taken tight, and then freed off until the lugs are parallel for the first time.

Couplings must be placed in a central position fore and aft in the hose box (as per diagram). Refer Appendix A for hose flaking instructions.

6.3 **Fire Plug Chamber and Equipment**

Fire plug chamber to be one (1) metre from the left side of the hose trailer and the standpipe, placed in position in the fire plug.

Turncock key to be placed in the top brackets.

The turncock key can be handed to No. 4 or placed on the ground so as not to be in contact with the hose trailer.

6.4 **Firemanship Discipline**

6.4.1 **Dropping of Equipment**

It is considered bad firemanship to drop equipment. Equipment must be placed, not thrown, onto the ground, or into the hose box.

Penalties will be incurred where the branch or couplings are dropped.

Equipment will be considered 'dropped' if it comes into contact with the ground or contents of the hose box and is not in contact with the crew member's hand.

6.4.2 Head of standpipe shall be turned in a clockwise direction. Turning the standpipe head in an anti-clockwise direction will incur a penalty.

6.5 **Couplings**

When making or breaking hose to hose couplings, the crew member shall face the source of supply and straddle the hose.

The female nut only shall be turned and female cuff or shank shall be in contact with both thighs, above the knees to prevent twisting of the hose. A partial turn on the male coupling shall be permitted to assist in marrying the threads.

Couplings made or broken below the level of the knees will incur a penalty.

6.5 **Couplings** cont...

When making coupling at the standpipe, the shank of the female coupling shall be held by the hand and the female nut only turned. The hose need not be straddled.

All hose couplings must be hand tight.

No movement evident to the judge(s) when tested in the approved manner. Refer Appendix B.

6.6 **Branch**

When connecting branch, place one foot on the shank of the male coupling to raise the threads clear of the ground.

Grasping the branch, with one hand on the nozzle and one hand on the shank, connect the branch to the male coupling by turning it in a clockwise direction until it is hand tight. No movement evident to the judge(s) when tested in the approved manner. Refer Appendix B.

The branch must be tightened in this manner and not when the crew member is running with the hose.

When disconnecting branch, place one foot on the shank of the male coupling to elevate the branch. Grasping the branch with both hands on the shank remove the branch by turning it in an anti-clockwise direction.

6.7 **Hose**

Hose must be run from hose trailer flake after flake. The taking of more than one (1) flake will incur a penalty.

Any full twist in the hose caused by faulty making or breaking couplings or branch will incur a penalty.

Hose which can not be pulled out straight from the branch end at the completion of the drill is fouled, and will incur a penalty. Except the Captain, any crew member may clear the hose to prevent fouling prior to completion of the drill.

Fouling of the hose at the branch end when placing branch in electrical contacts is exempt from penalty.

All surplus hose and couplings must be in the hose box before the end of each movement.

Any hose or coupling outside of the hose box at the end of a movement will incur a penalty.

7. RULES FOR CREW

7.1 Captain

Ensure that all equipment is correctly placed prior to commencement of drill.

Responsible for ensuring that the crew members are correctly dressed prior to commencement of drill.

Responsible for checking times of drill and/or crew penalties. Responsible for lodging protests with Marshal within five (5) minutes of finish of drill.

Captain ONLY may discuss penalties and/or protests with Marshal.

Responsible for crew being ready when called.

Knowing timing of events, crews not ready may be penalised three seconds or disqualified.

Captain must not assist manually and must stand clear when the drill is in progress.

Captain may give advice or instructions to the crew when they are carrying out drill movements.

7.2 No. 1

In the second movement, No. 1 must not place the branch on the ground to uncouple until the call of 'Knock Off' has been given by No. 4.

Squatting by No. 1 will not be permitted.

Branch must be held above knee level.

In the second movement No. 1 must stand erect, with the branch held knee level, prior to placing the branch in the contacts.

No. 1 leaves branch in contacts at completion of drill to allow judge(s) to check for penalties.

7.3 No. 2

At the first and second movement completion No. 2 must be at the branch end touching body of No. 1 with a hand to signify 'at the branch end'.

In the second movement No. 2 must not leave the branch end until No. 3 leaves the hose trailer with both couplings of the new length of hose.

Must be at the branch end with No. 1 before No. 1 places the branch in the electrical contact.

Nozzle of the branch to be in advance of the finish line.

7.4 No. 3

At the end of the first movement, No. 3 will not stay at the standpipe, but will return to the hose trailer and prepare to commence the next movement of the drill.

7.5 No. 4

In the first movement No. 4 must place the turncock key on the fire plug spindle and have both hands on the turncock key cross arm prior to and during calling 'Ready One' and 'Turn On'.

In the second movement No. 4 must have both hands on the turncock key cross arm prior to and during calls of 'Knock Off', 'Turn On'.

In all movements No. 4 must have both hands on turncock key cross arm when the Captain blows the whistle for commencement of next movement and also when Marshal drops flag for end of drill.

8. RULES

Captain and crew of each team will report to the Dry Hose Drill Assembly Area when called to do so and form up in their running order as per the program under the direction of the Assembly Area Marshal.

When the Event Marshal is ready for the next team the Assembly Marshal will instruct the Captain to order the crew to 'Take Post'.

The Captain will call the crew to attention' and give the order Take Post'.

The crew will move smartly to take up the following positions:

No. 1 to the right side rear of trailer

No. 2 to the left side rear of trailer

No. 3 to the right side front of trailer

No. 4 to the left side front of trailer

When the crew have taken up their respective positions the Captain will report to the event Marshal 'Team Ready'.

The Marshal, when satisfied that the Timekeeper(s) and Judge(s) are ready, will order the team Captain to 'Stand By' and raise the starting flag to indicate to Timekeeper, ready to start drill.

The Timekeeper(s) will push the start button activating starting signal and electrical timing.

Crew will get to work on starting signal
Captain blows whistle
Marshal drops flag.

First Movement

- No. 1 Takes the branch and proceeds to the 29 metre line
When at or past the 29 metre line and being touched by No. 2 On the call of 'Ready One' by No. 4; calls 'Turn On'
- No. 2 Assists No. 1 and proceeds to the 29 metre line
Must be touching body of No. 1 with a hand to signify 'at the branch end' when No. 1 calls 'Turn On' and when whistle sounds to commence second movement.
- No. 3 Provides the turncock key for No. 4
Assists with the clearing of the hose
Breaks coupling in the regulation manner
Replaces hose and coupling not used in this movement into the hose box
Connects the female coupling to the standpipe and tightens
Returns to the trailer

First Movement cont...

- No. 4 Ships turncock key
When No. 3 has taken first turn on coupling on standpipe, with both hands on cross arm of turncock key calls 'Ready One' With both hands on cross arm of turncock key repeats No. 1's call of 'Turn On'

Note - Before commencing second movement.

- No. 1 At or past the 29 metre line and called 'Turn On'
- No. 2 At the branch end, touching body of No. 1 with hand
- No. 3 Hands clear of coupling and all duties complete Returns to hose trailer as soon as practicable
- No. 4 Both hands on cross arm of turncock key and repeated No. 1's call of 'Turn On'

Second Movement

- No. 3 Commences clearing hose and assisted by No. 4 procures a length of hose from the hose trailer.
With a coupling in each hand proceeds to the branch end
Lays the male coupling for No. 1
Couples the female coupling of the new length
Calls 'Ready One' when a turn has been made on the male coupling.
Hardens coupling (hand tight) and places on ground and stands clear.
- No. 4 Breaks coupling at the hose trailer in regulation manner
Hands female coupling to No. 3
Replaces hose and coupling not used in this movement back into hose box
Returns to turncock key
With both hands on cross arm of turncock key repeats 'Knock Off' and 'Turn On' when called by No. 1
- No. 1 Calls 'Knock Off' when No. 3 is past the 23 metre line
Disconnects branch in the regulation manner
Connects branch in the regulation manner to the new length supplied by No. 3
Tightens branch (hand tight),
Proceeds to the 58 metre line
If at, or past the 58 metre line and being touched by No. 2 on call of 'Ready One' by No. 3, calls 'Turn On' and places the branch in the electrical contact on the finish line.

Second Movement cont...

- No. 2 Leaves branch end after No. 3 leaves hose trailer
 - Assists No. 1 with hose
 - Must be touching body of No. 1 with hand to signify 'at the branch end' when No. 1 calls 'Turn On'

Marshal drops flag when branch is placed in electrical contacts and timed drill is completed. Crew members must then stand loosely at attention awaiting instructions to the Captain from the Marshal, to 'Knock Off'/'Make Up'.

Captain gives two blasts on whistle

No. 1 calls 'Knock Off'/'Make Up'

No. 4 repeats 'Knock Off'/'Make Up'

No. 1 Uncouples the branch

Assists No. 2 and No. 3 to return hose and hose box to the hose flaking area

Return branch to the hose trailer

No. 2 Breaks coupling

No. 3 Returns hose to hose flaking area

No. 4 Uncouples hose from the standpipe and assist No. 1, No. 2 and No. 3 to return hose to the hose flaking area.

Captain. Checks with the Marshal about penalties.

Penalties and equipment tests where applicable as in Senior Dry Hose Drill

HOSE AND HYDRANT DRILL

SUMMARY

At the start, two members move into the equipment square and ship the standpipe, bowl out the hose and couple it to the hydrant. The branch is then connected to the hose. One member then proceeds from the hydrant, to the target located at the 35 metre mark. The water is turned on and the target is struck until the light is activated.

UNIFORM

The crew will wear regulation competition uniform.

PENALTIES

Any team incurring a penalty shall result in that team not having a result recorded for that event.

EQUIPMENT

The equipment consists of a plumbed hydrant located at the edge of the 2m x 2m equipment area, a 64mm branch, one 30 metre length of 38mm rubber hose, a standpipe, turncock key and a plate cover key.

The equipment shall be arranged in the square by the judge as shown in the diagram in appendix A.

FIREMANSHIP

HOSE

When bowling out the hose, use an under-arm bowling action or the hose may be bowled by hand from the ground position. The couplings are to be held by grasping the hose as near as practicable to the couplings.

COUPLINGS

Couplings should be placed, NOT thrown on the ground.

Male coupling to be placed on the ground ready for connecting of the branch.

The female coupling to be connected to the standpipe.

BRANCH

The method of connecting the branch will be: place one foot on the shank of the male coupling to raise the threads clear of the ground.

Grasping the branch with one hand on the nozzle and one hand on the shank, connect the branch to the male coupling by turning in a clockwise direction until tight.

The branch must be tightened in this manner and not when the crew member is running with the hose.

EQUIPMENT

The branch will be considered dropped if it comes in contact with the ground when it is not in contact with the crew members hand.

DRILL

The crew members will stand loosely at attention at the starting point located 2 metres from the equipment square.

Dressed in regulation uniform.

On the starting signal the crew members will carry out the drill in the following manner.

Remove the hydrant cover plate with the key. Ship the standpipe and the turncock key (ensure that the standpipe outlet is facing toward the target). Bowl out the hose and connect to the standpipe. The branch is then connected to the length of hose and the target at the 35 metre mark is struck with a jet of water until the red light is activated to complete the drill.

The head of the standpipe must be turned clockwise only.

Loosely at attention shall be with feet together, arms to the side and standing straight upright.

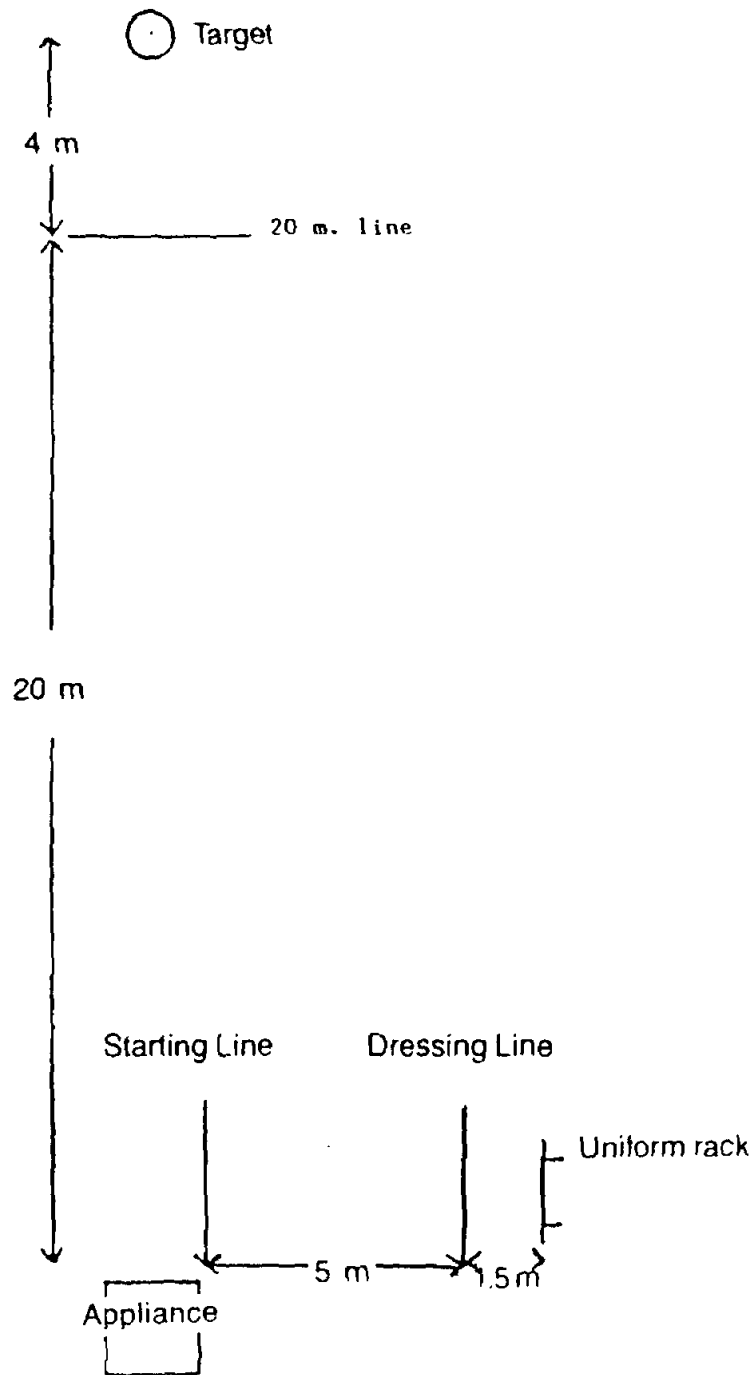
PENALTIES

Any one of the following shall cause no score to be recorded:

- (1) Dropped couplings
- (2) Incorrect coupling of the branch
- (3) Dropped branch
- (4) Not wearing the complete uniform at the commencement and completion of the drill
- (5) Turning the standpipe head anti-clockwise
- (6) Failure to clear the hose

Placings in the event shall be worked out on the best times of the teams which have a score recorded.

CADET HOSE REEL DRILL



CADET HOSE REEL DRILL

SUMMARY

Two cadets run to the dressing line and don their overalls and helmets, return to the appliance and run out at least 20 metres of hose and hit the target with a jet of water until the red light is activated.

DRILL

The drill is performed by two cadets.

The cadets will commence the drill standing to attention on the starting line situated adjacent and parallel to the appliance without their overalls and helmet.

On the starting signal the cadets will run to the uniform rack located at right angles and 6.5 metres from the appliance, don their overalls and helmet and when correctly dressed return to the appliance, turn on the main valve to the hose reel and run out the hose from the appliance supplied, to be at or past the 20 metre line and hit the target with the jet of water until the red light is activated.

When target is hit both cadets must be controlling the hose with their hands within 1.5 metres of the branch.

UNIFORM

The cadets will hang their regulation overalls and helmet on the uniform rack provided at the 6.5 metre mark prior to the commencement of the drill.

When dressing they must not cross over the dressing line before at least seven studs on their overalls are fastened, including both sleeves, and their helmet in place.

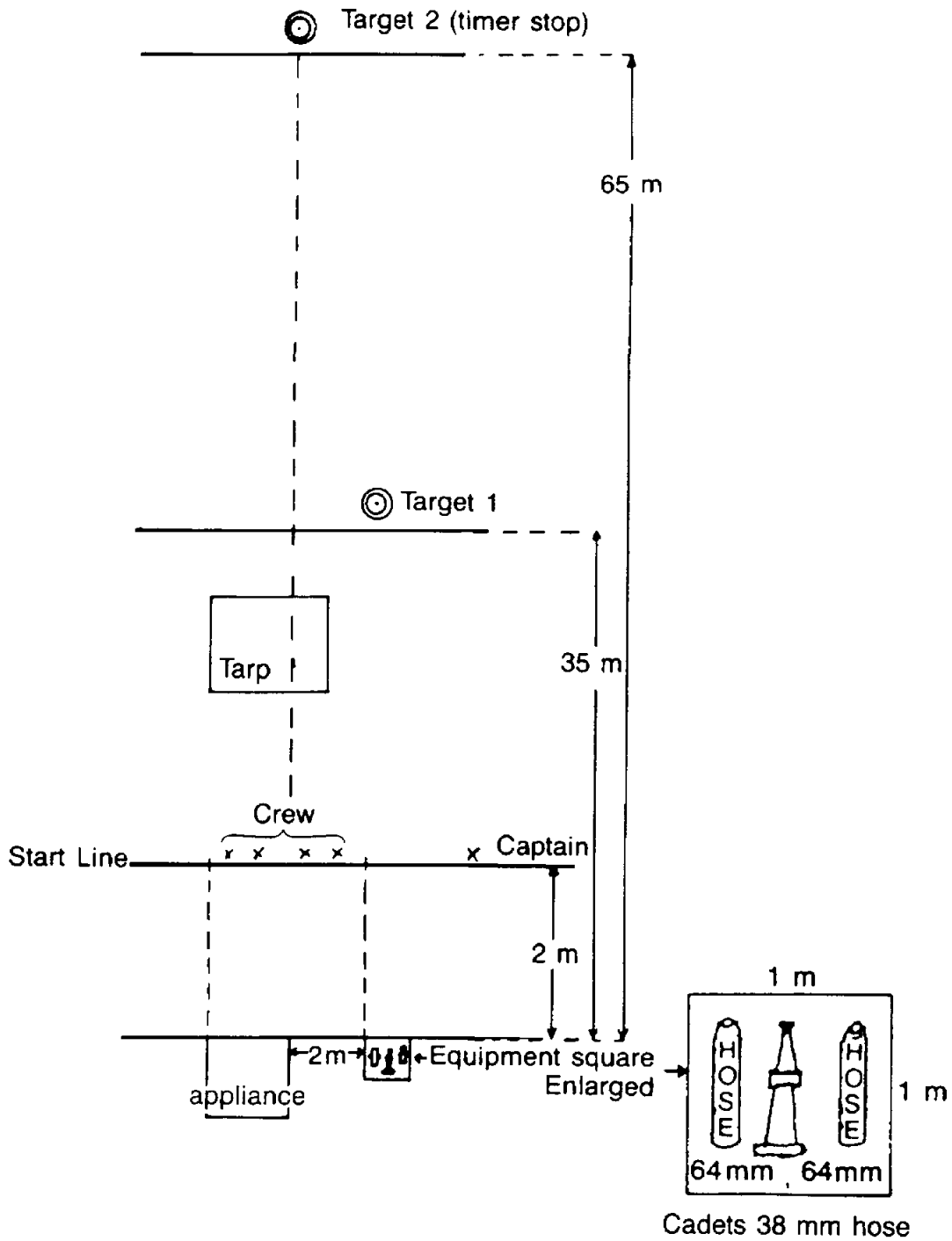
At the completion of the drill the cadets must still be in full regulation uniform.

PENALTIES

Each infringement of the rules will incur a 3 second penalty:

- (1) Crossing the dressing line before correctly dressed (each stud not fastened, less than seven, incurs a separate penalty).
- (2) Water hitting the target before one foot of the cadet operating the branch is on or over the 20 metre line.
- (3) Failure to complete drill in full uniform.
- (4) Two cadets to be at branch end when target is hit.

PUMP DRILL



PUMP DRILL

SUMMARY

Teams will comprise of five crew members including a Captain. The four crew members commence the drill from the start line 2 m behind the appliance.

The drill consists of connecting one length of hose then proceeding to strike a target 35 metres from the appliance until the red light is activated.

A second length is then obtained from the equipment square, connected to the first length, and the second target 65 metres from the appliance is struck with a jet of water until the red light is activated to complete the drill.

CADETS

Cadets will use 38 mm hose and plastic branch with a 1/2 (13 mm) nozzle. The pump will be fixed at a constant speed to obtain 300 Kpa (40 psi).

CREW

The team will consist of five crew members including a Captain.

The Captain must not assist manually and is to stand clear when drill movements are being carried out. The Captain may give advice or instructions to the crew members when they are carrying out drill movements.

UNIFORM

All crew members will wear approved CFS overalls, helmet and footwear as detailed in Competing conditions.

PENALTIES

Each infringement of the rules of the Pump Drill will incur a 3 second penalty.

EQUIPMENT

Pump

A standard 2.4 CFS appliance will be used for this drill.

The pump engine will be running at low speed and the pump primed prior to the commencement of the drill.

The pressure and supply of water to the hoselines is at the discretion of the pump operator.

Hose

Two lengths of 64 mm rubber lined hose rolled on the bight and a standard branch with a 5/8" (15 mm) nozzle will be placed within a one metre equipment square to the left of the pump *by the Marshal* (see diagram).

The method of running out the hose will be at the discretion of the crew but hose and branch connections must be made in the regulation manner.

Hose connections

When making or breaking hose couplings the crew member shall face the source of the supply and straddle the hose.

The hose shall be held between the thighs above knee level, the shank of the male coupling to be held with one hand and only the female nut turned.

A partial turn on the male coupling is permitted to assist in marrying the threads.

Connection to Pump outlets

The shank of the female coupling shall be held by one hand and *only* the female nut turned.

Branch Connections

Connecting — Place one foot on the shank of the male coupling to raise the threads clear of the ground.

Grasping the branch, with one hand on the nozzle and one hand on the shank, connect the branch to the male coupling by turning it in a clockwise direction until tight.

Disconnecting — Place one foot on the shank of the male coupling to elevate the branch.

Then grasping the branch with both hands on the shank turn it in an anti-clockwise direction.

Equipment will be considered dropped if it comes into contact with the ground when it is not in contact with the crew member's hands.

FALL IN

Captain and crew of each team will report to the Pump Drill Assembly Area when called to do so and form up in their running order as per the program under the direction of the Assembly Area Marshal.

When the Event Marshal is ready for the next team the Assembly Marshal will instruct the Captain to order the crew to 'Fall In'.

DRILL

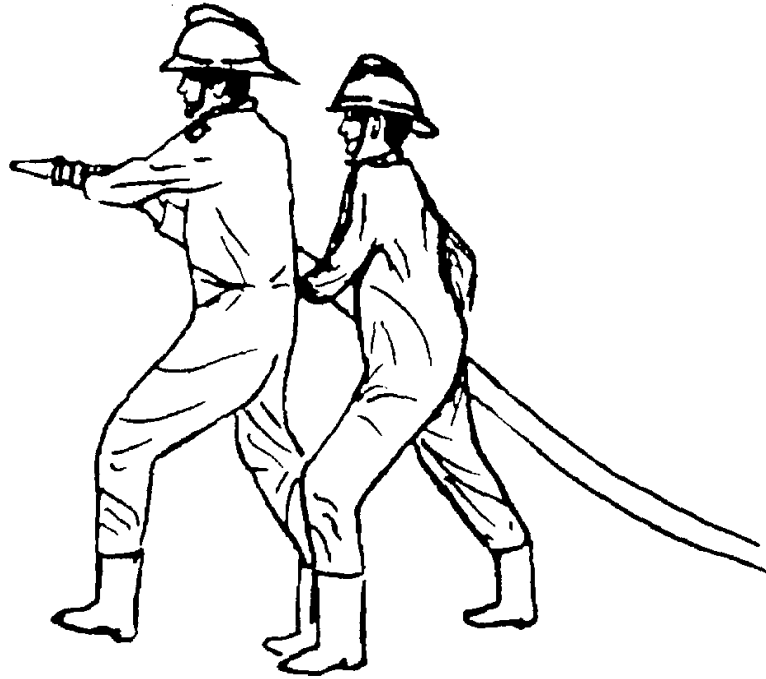
The four crew members will fall in and stand to attention facing the pump on the start line situated 2 metres in behind the pump. The Captain will fall in at the end of the line (see diagram of track and equipment layout).

The pump is running and primed with water prior to the start of the drill which will be performed without the crew being numbered but the Captain may give instructions. Two lengths of hose (rolled on the bight) and a branch are positioned in the equipment square. On the starting signal one length of hose will be obtained from the square attached to the pump delivery, the branch connected and the first target at the 35 m mark struck with a jet of water until the red light is activated.

When the light is activated on first target the second length of hose is obtained from the square and added to the branch end of the first line after disconnecting the branch. The branch is then connected to the second length of hose and the target at the 65 m mark is struck with a jet of water until the red light is activated to complete the drill.

BRANCH END

There must be at least two crew members at the branch end when water reaches the branch in each movement. Both crew members must be controlling the hose with their hands within 1.5 metres of the branch. (See diagram.)

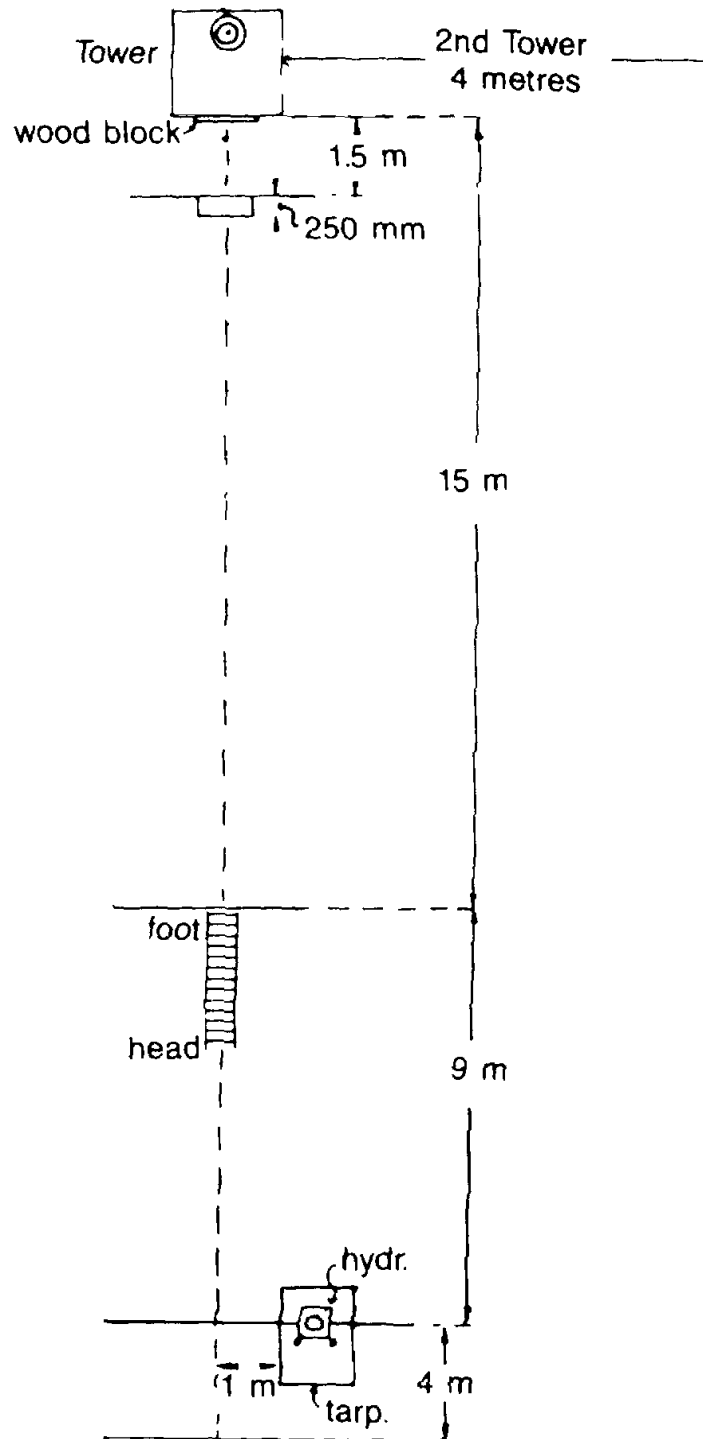


PENALTIES

Each of the following infringements of the rules will incur a 3 second penalty.

- (1) Incorrect coupling of hose connections.
- (2) Less than two men at branch when target is knocked down.
- (3) Dropped coupling.
- (4) Dropped branch.
- (5) Incorrect method of connecting branch.
- (6) Incorrect method of disconnecting branch.
- (7) Anticipation of second movement (picking up second length of hose before first target knocked down).
- (8) Captain touching equipment during drill.
- (9) Failure to clear hose from track at completion of drill.
- (10) Not wearing approved uniform at commencement and completion of drill.

FOUR MAN LADDER DRILL



FOUR MAN LADDER DRILL

SUMMARY

The crew may carry out the drill in any sequence which includes: picking up a ladder and pitching it against the tower, shipping the standpipe and turncock key in the hydrant, connecting a length of 38 mm. hose and branch, climbing the ladder and striking the target on top of the tower with a jet of water until the red light is activated to complete the drill.

CREW

A team in this event consists of four crew members including a Captain.

UNIFORM

Crew members will wear regulation competition uniform.

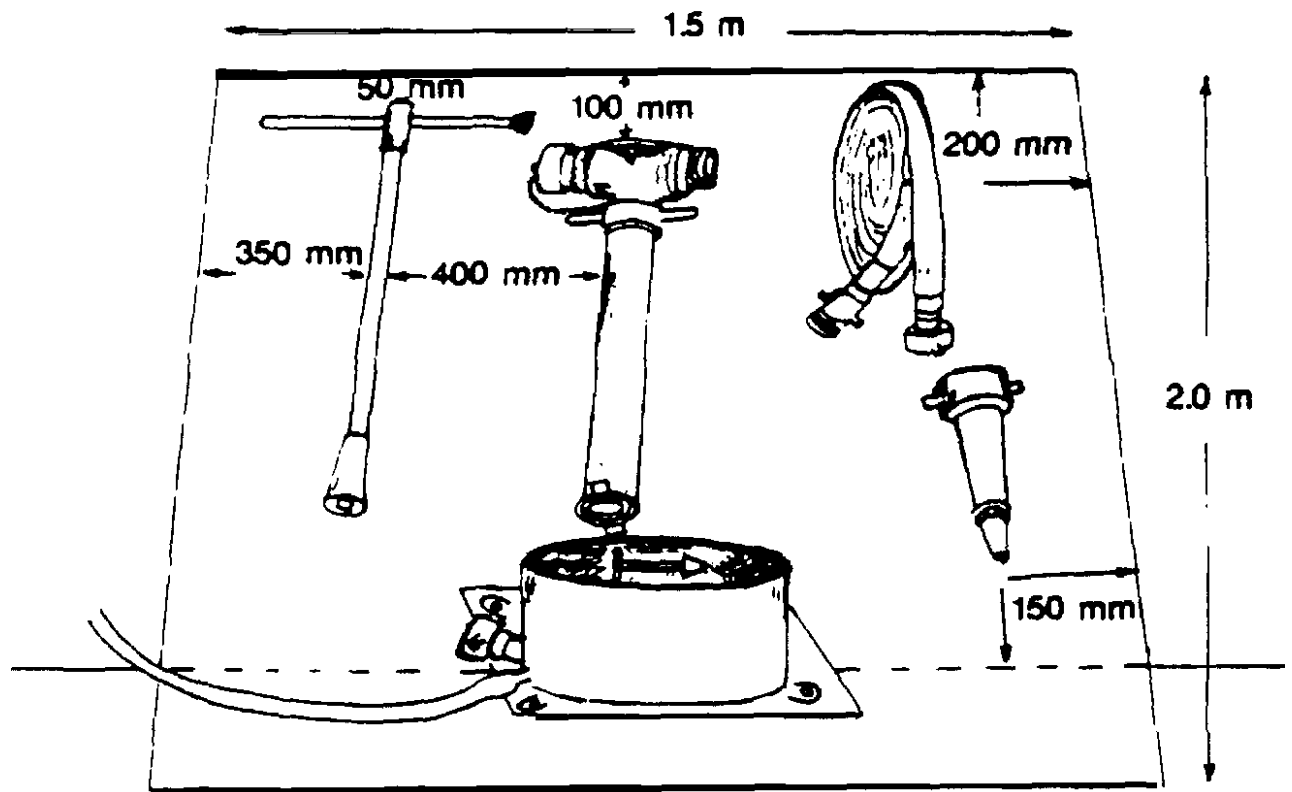
PENALTIES

Each infringement of the rules of the FOUR MAN LADDER DRILL will incur a 2 second penalty

EQUIPMENT AND LAYOUT

1. A 5 metre aluminium ladder placed on the ground with the foot of the ladder 15 metres from the base of the tower.
2. The ladder footing block is located at the base of the tower.
3. The starting line is 28 metres from the base of the tower.
4. The height of the tower platform is 4.26 metres.
5. An equipment square is situated 24 metres from the base of the tower and 1 metre to the right of the ladder centre line.
6. The following equipment will be placed inside the equipment square by the Marshal with the fire hydrant in a central position (see diagram).
 - a) 30 x 38 mm. length of hose rolled on the bight (64 mm. alloy couplings).
 - b) 64 mm. plastic branch with a 9 mm. nozzle.
 - c) Double head standpipe.
 - d) Turncock key.
 - e) Cover plate key.
 - f) Wet drill fire hydrant.

EQUIPMENT AND LAYOUT cont...



Equipment square for Four Man Ladder Drill.

FALL IN

Captain and crew of each team will report to the Four Man Ladder Drill Assembly Area when called to do so and form up in their running order as per the program under the direction of the Assembly Area Marshal.

When the Event Marshal is ready for the next team the Assembly Marshal will instruct the Captain to order the crew to 'Fall In'

DRILL

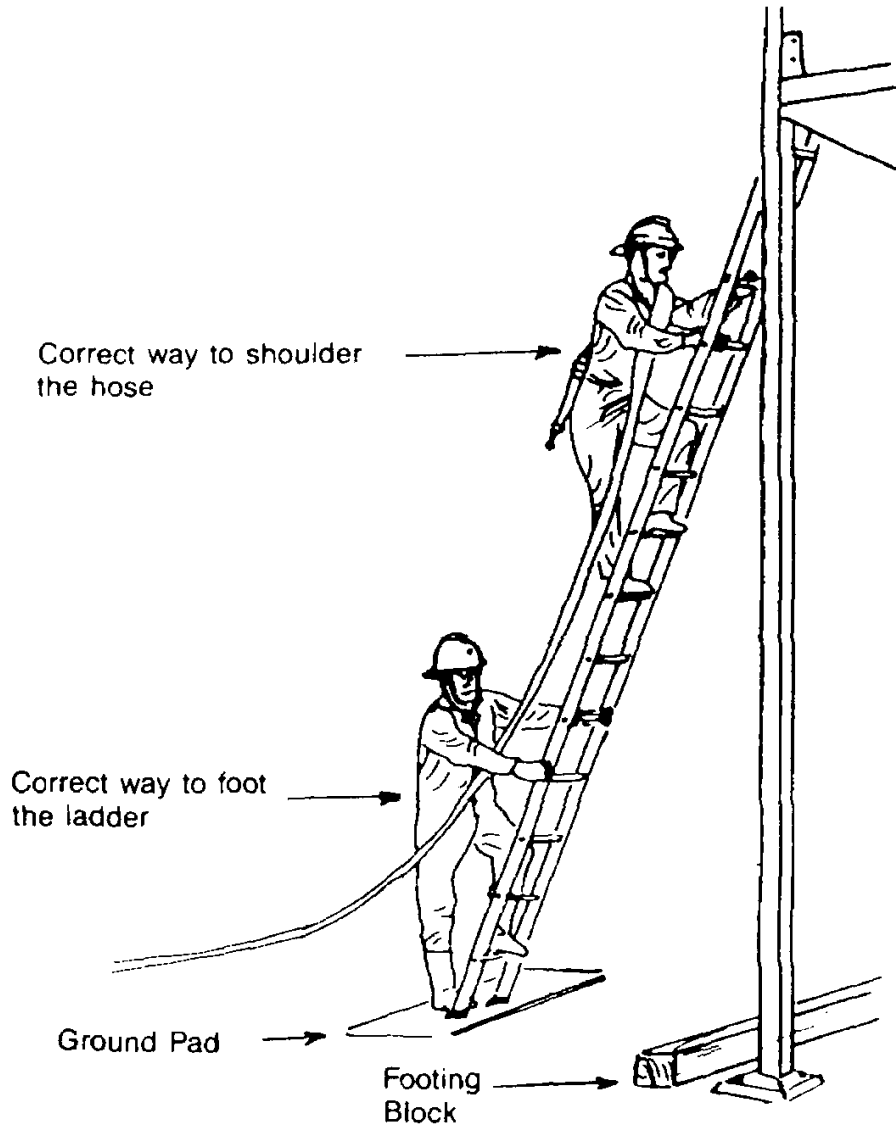
The Captain and crew will stand loosely to attention behind the starting line to the rear of the equipment square. The drill will commence on the starting signal. The drill may be carried out in any sequence. It consists of picking up the ladder, carrying it to the tower and placing it at the footing block to pitch it against the tower. The foot of the ladder is then placed on the ground pad located 1.5 metres from the base of the tower.

The hydrant cover plate is removed with the key, the obstruction cleared from the hydrant outlet and the standpipe and turncock key shipped.

The hose must be run out and connected to the standpipe and branch.

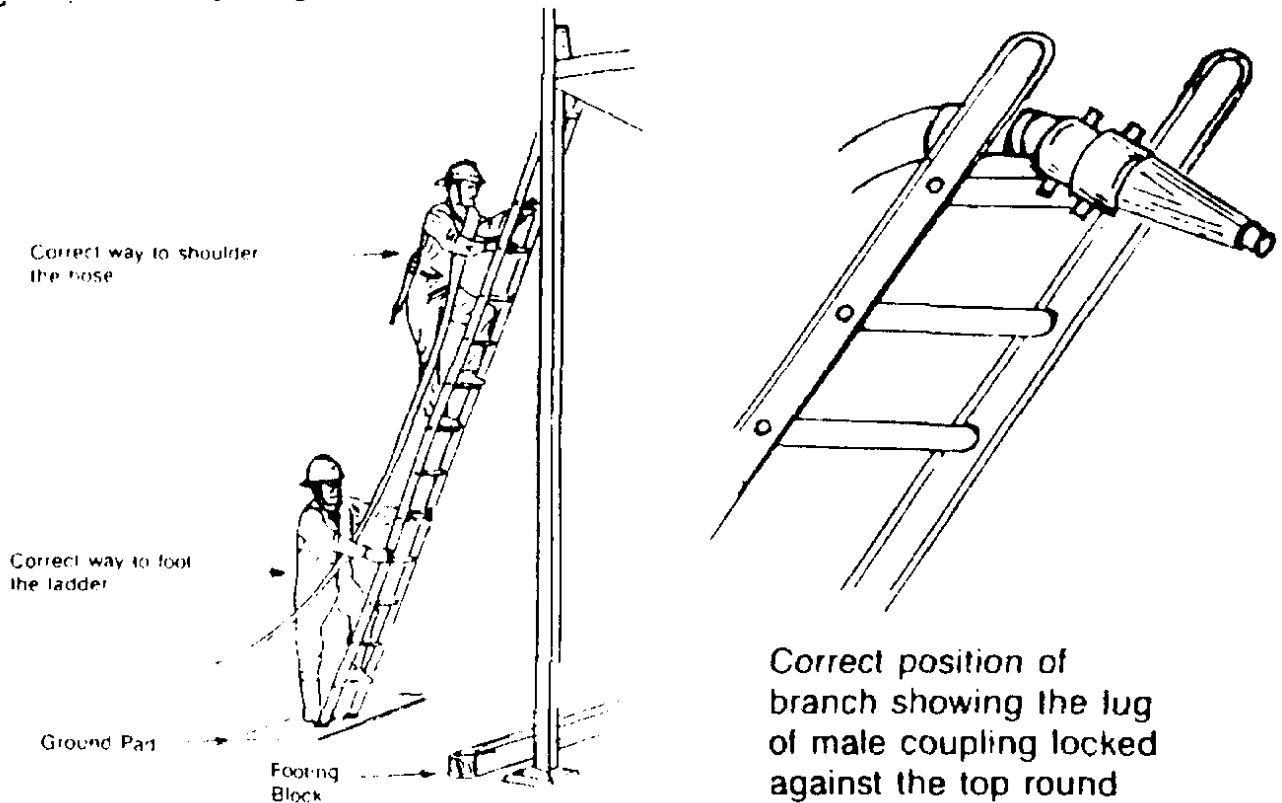
DRILL cont...

There is no need to straddle the hose when connecting to the standpipe but the shank of the female coupling must be held by one hand and only the female nut turned.



DRILLS cont...

A crew member climbs the ladder, commencing no higher than the second round, with the branch under an armpit and the hose over opposite shoulder while another member foots the ladder (one foot on bottom round as per diagram).



When climbing the ladder, the hands must grasp each or alternate rounds and every round must be stepped on.

When the water is directed at the target the branch, from the tip of the nozzle to the back of the lugs on the male coupling, must be in advance of the top round, with a lug of the coupling locked against the top round. The hose must be controlled by the crew member footing the ladder (as per diagram).

Crew members will not be numbered and may carry out the drill in any order. The method of running out the hose will be at the discretion of the crew but the branch connection must be made in the regulation manner. When connecting the branch place one foot on the shank of the male coupling to raise the threads clear of the ground. Grasping the branch, with one hand on the nozzle and one hand on the shank, connect the branch to the male coupling by turning it in a clockwise direction until tight. The 'Turn On' signal must be given after the lug of the male coupling is locked against the top round of the ladder.

Equipment will be considered dropped if it comes into contact with the ground when it is not in contact with the crew member's hands.

DRILL cont...

The drill is complete when the target is struck with a jet of water until the red light is activated.

Note that the event may be run in heats of up to two teams.

MAKE UP

After the completion of the drill the crew will clear the hose from the running track before disconnecting the coupling at the hydrant and under running the hose.

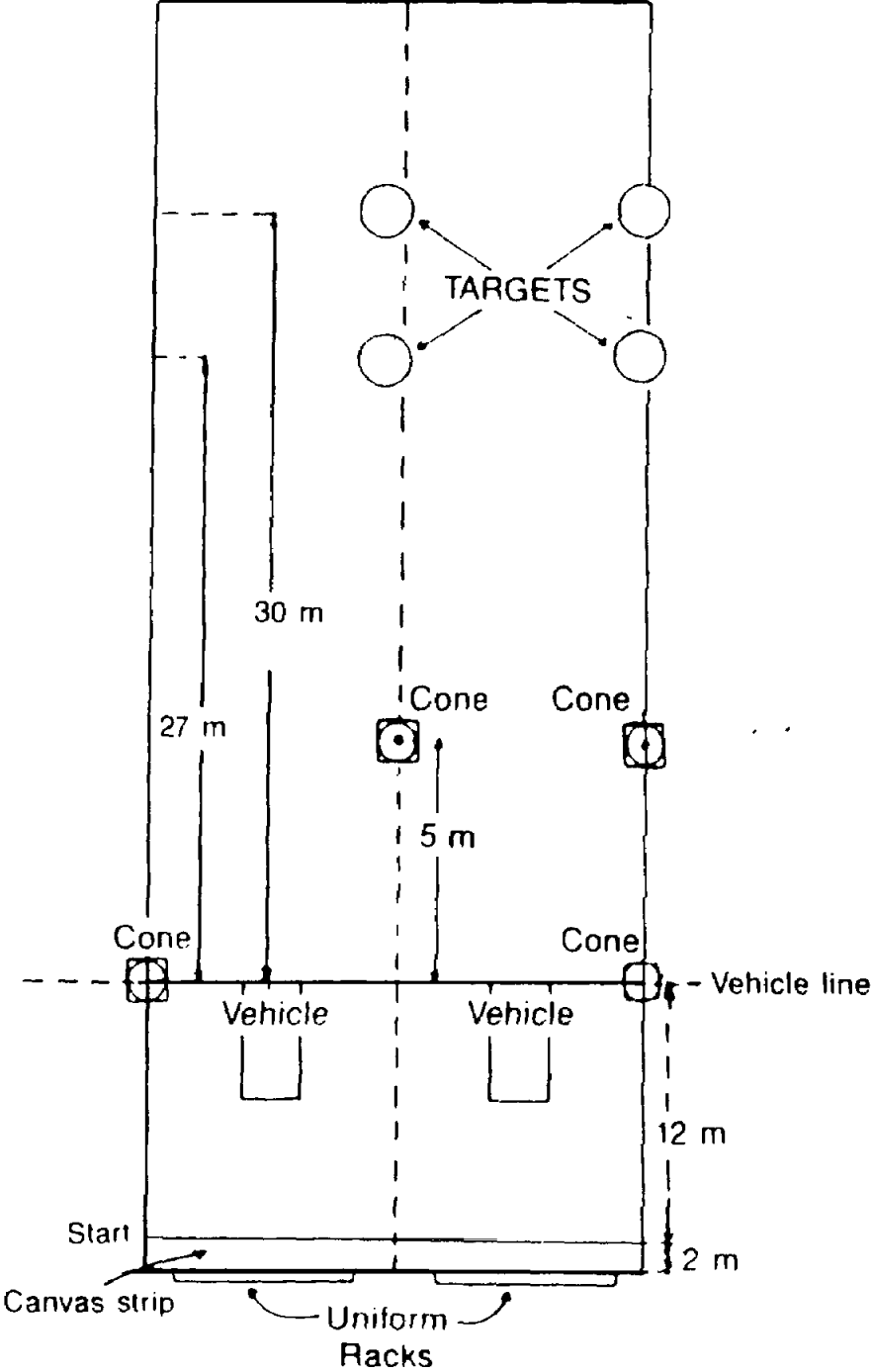
PENALTIES

Each infringement of the rules will incur a penalty of 2 seconds.

1. Failure to use the footing block when pitching the ladder.
2. Failure to place the FOOT of ladder completely on the GROUND PAD before climbing ladder.
3. Incorrect method of climbing ladder
 - (a) starting above the second round
 - (b) not grasping each or alternate rounds
 - (c) not stepping on each round
4. Failure to foot ladder before the ladder man reaches the fourth round.
5. Head of ladder not between safety bars.
6. Hose and branch not carried correctly (under armpit and over opposite shoulder) when climbing ladder.
7. Branch not correctly positioned when the water hits the target.
8. Hose not controlled at the base of the ladder.
9. Incorrect method of connecting branch.
10. Dropped coupling, branch or standpipe.
11. Not wearing approved C.F.S. uniform at the commencement and completion of the drill.
12. Captain touching equipment during the drill.
13. Failure to clear hose from running track on completion of drill.

DISQUALIFICATION will occur if 'turn on' signal is given before lug of male coupling is locked against the top round of the ladder.

PORTABLE PUMP ALARM RACE



PORTABLE PUMP ALARM RACE

SUMMARY

The event is run over a 35 metre driving course. Each team consists of four crew members including a Captain.

The crew assembles on the start line. On the starting signal they run to the uniform racks, don overalls and helmets and then mount their vehicle. The crew starts the vehicle and drives down their designated lane knocking down three targets with water before crossing the finish line.

CREW

The team will consist of four members including a Captain. The Captain does not actively take part in the event or ride on the vehicle. The Captain watches the crew and is responsible for them starting in the correct lane, placing vehicle and uniforms in the correct position and for lodging any protests.

Any firefighter (excluding cadets) may act as the Captain for any number of crews from their Brigade and also run as a crew member in one (1) dry hose drill team.

The driver of the vehicle must hold a current driver's licence. The driver must at all times adhere to the rules of the Road Traffic Act in relation to dangerous driving practices and the consumption of alcohol.

Drivers must be particularly careful when the track is wet. The vehicle must not leave the start line until all crew are safely aboard. Driver must be correctly wearing seat belt before vehicle movement commences.

After the vehicle crosses the finish line, the driver must slow down and return the vehicle to the start line for the next event.

The team will be disqualified for any unsafe driving practices.

UNIFORMS

Crew members may cross the dressing line as soon as they are fully dressed. Seven press studs on the overalls must be fastened, including both sleeves and the helmet must be on with the chinstrap secured under the chin.

At the completion of the drill, crew members must be dressed in regulation uniform.

Any alteration of uniform from the standard pattern will cause disqualification. Sleeves must have at least 8 cm. flaps from cuff edge – i.e. outside edge.

PENALTIES

Each Infringement of the rules of the PORTABLE PUMP ALARM RACE will incur a three second penalty.

VEHICLE

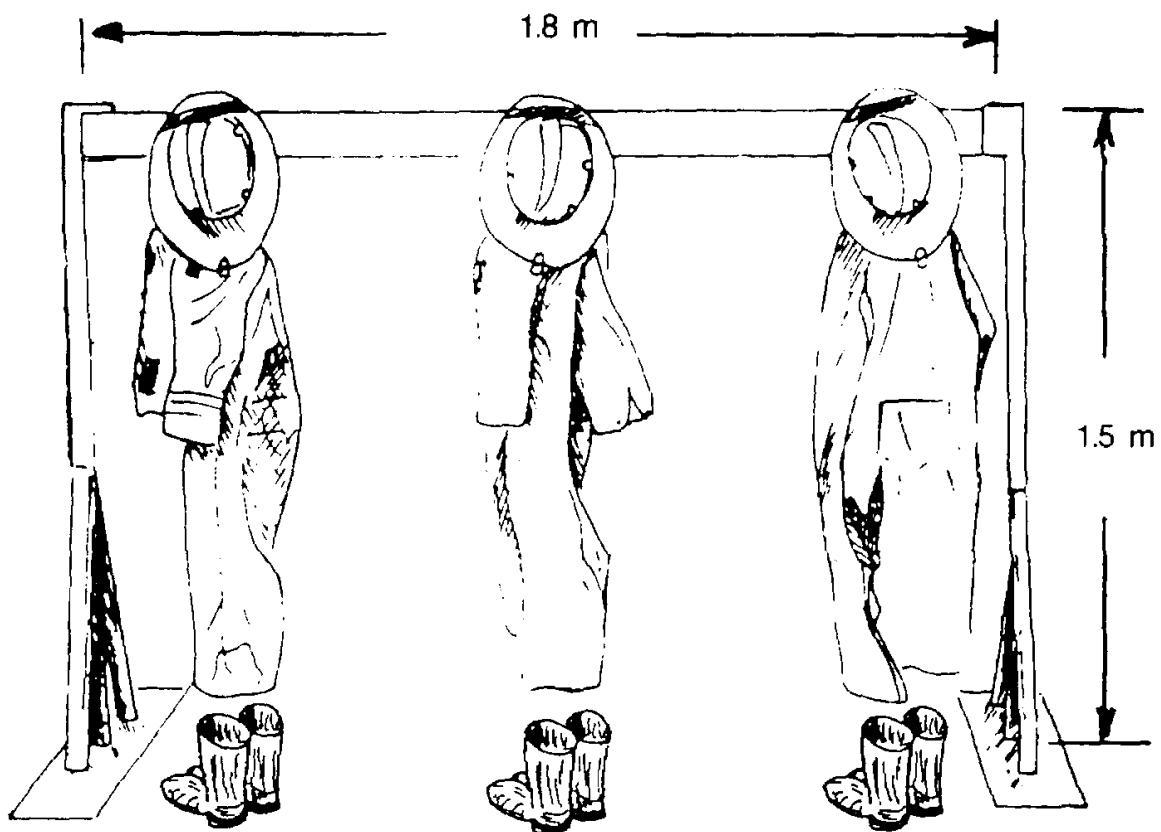
All crews will use utility vehicles supplied by CFS Headquarters. Prior to the commencement of the drill the Marshal will ensure that the ignition of the vehicle is turned off, the hand brake is on, gears are in neutral and the doors are closed.

EQUIPMENT

A drop on unit consisting of a small pump, tank, 3 m x 25 mm handline with a 6 mm nozzle, is mounted on the rear of a utility vehicle. The pump will be primed and running at the commencement of the drill.

DRILL

The crew commences the drill standing loosely to attention on the starting line without uniforms, wearing at least sufficient clothing to be respectable. On the starting signal the crews don their uniforms, helmets and boots. The crew then mount the vehicle and start the engine. When all crew are on board, the vehicle proceeds down the course to knock down the three targets placed at the 27, 28.5 and 30 metre marks. The vehicle then proceeds a further 5 metres to the finish line to complete the drill.



Uniform Rack - Portable Pump Alarm Race.

TARGETS

The targets will be the standard C.F.S. wet drill targets placed on the drivers side of the lane 3 metres apart as follows:

No. 1 target at the 17 metre mark.

No. 2 target at the 30 metre mark.

Care must be taken not to strike targets or posts with either the nozzle or hand. A penalty will be incurred for each target or post struck.

A penalty will be incurred if the vehicle strikes a target stand. The light on the first target must be activated before moving onto the second target.

Water must not be sprayed on the track for the first 5 metres from the vehicle line.

PENALTIES

Each infringement of the rules will incur a penalty of 3 seconds.

1. Crew members mounting the vehicle before being fully dressed (1 penalty, per crew member per dressing fault).
2. Failure to complete the drill in regulation uniform (1 penalty per crew member).
3. Vehicle striking target stand (1 penalty per stand)
4. Water sprayed onto track before 12 metre mark.
5. Captain touching vehicle or equipment during drill.
6. Failure to correctly wear seat belt.

DISQUALIFICATION

1. Failure to activate light on targets.

DISQUALIFICATION

A crew will be disqualified if any of the following irregularities occur during the drill.

1. Reversing on the course.
2. Drill not completed within two minutes.
3. Vehicle leaving start line without all crew members on board (except the Captain)
4. Alteration of uniform from the approved standard pattern.
5. Unsafe driving practices.

SAFETY OF SPECTATORS

The Marshal is responsible for all safety measures as follows:

The track will be roped off on both sides. Only crew members actually competing and officials to be allowed within the roped area.

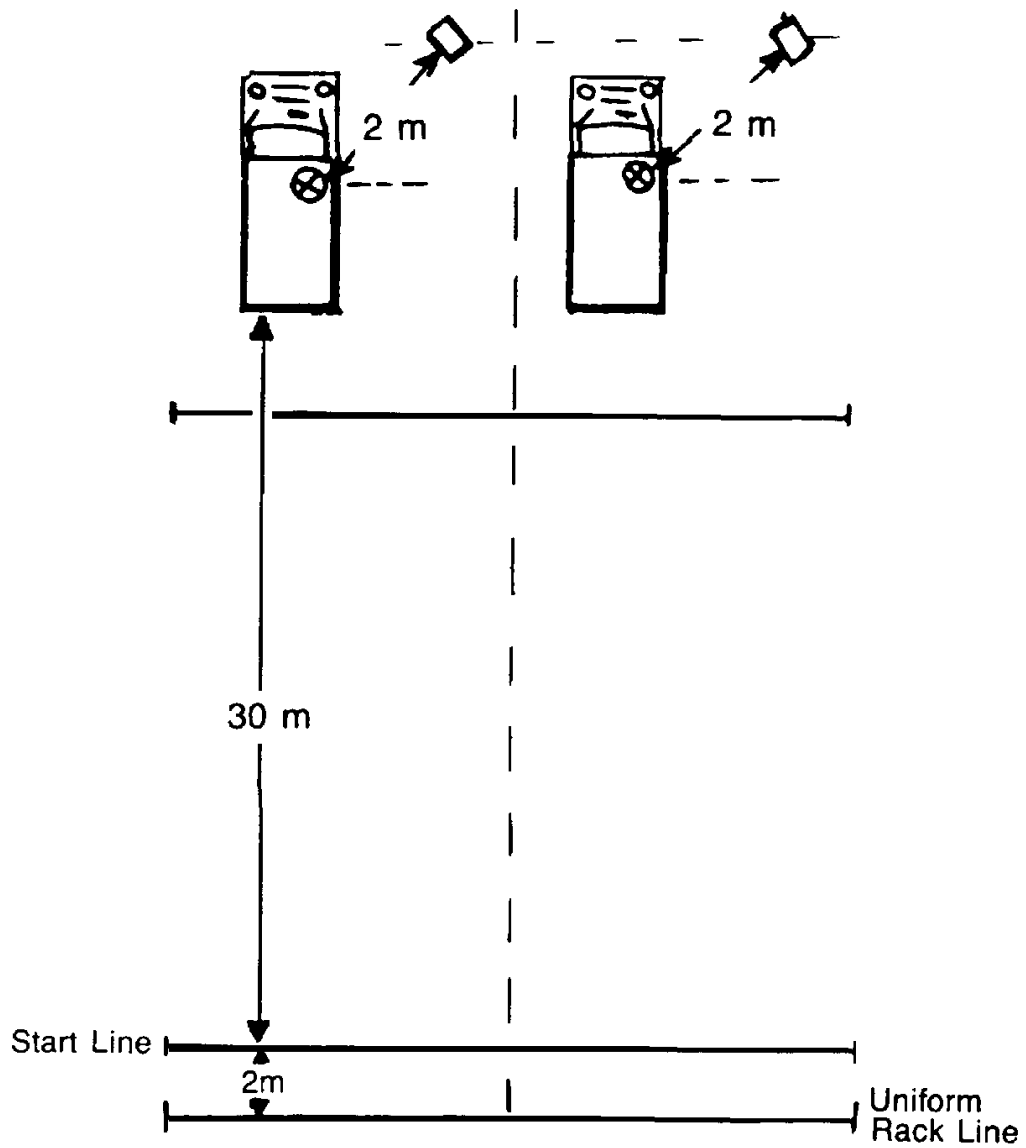
Spectators and children to be kept clear of the track.

The area in front of the vehicle braking area is to be kept clear.

PORTABLE PUMP ALARM RACE

WET WEATHER OR UNSUITABLE TRACK CONDITIONS

Targets, Track and Vehicle Positions



PORTABLE PUMP ALARM RACE

WET WEATHER OR UNSUITABLE TRACK CONDITIONS

For use when Chief Judge declares conditions too wet or unsuitable for the regular drill movement.

1. GENERAL

General rules for Alarm Race where practicable will apply. The drill may be carried out with the dressing movement if conditions will permit (not raining), notwithstanding that the track is unsuitable for the driving of vehicles. Where a vehicle requires to be switched on for the horn to be sounded, driver may switch on before commencement of the drill.

2. CAPTAIN

Captain will be responsible for availability, lining up, uniforms of crew, vehicle, pump equipment and all other unit requirements for the event, but shall not participate in the drill procedure.

3. DRILL MOVEMENT

On Starter's signal, crew will carry out the dressing movement (if conditions permit) turn, run to and mount vehicle.

- (1) **Driver:** Takes up driver's position - Closes door - Does not start motor - When door closed, sounds horn to signify 'Ready'.
- (2) **Pump Operator:** Mounts vehicle - operates the pump which will be primed and running prior to the commencement of the drill.
- (3) **Branchman:** Mounts vehicle and *on sound of vehicle horn*, directs stream at target until red light is activated to complete the drill.

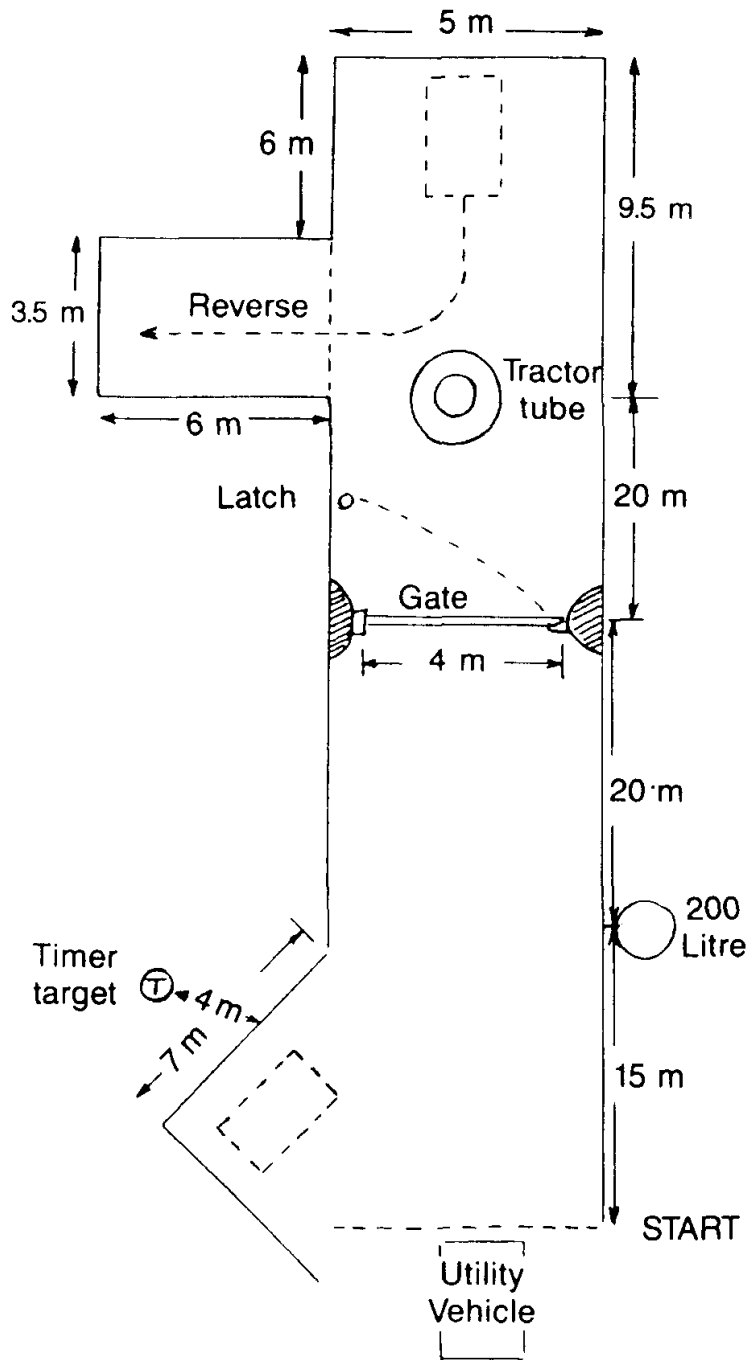
4. TIME

Will be taken from Starter's signal to activation of light on Target No. 2.

5. PENALTIES

Any applicable wet weather or standard Alarm Race rule irregularities.

RURAL DRILL



Rural Drill Course

RURAL DRILL

SUMMARY

The drill is performed by a crew of three using a vehicle equipped with a tank of water, pump, suction hose and a hand line.

On the outward leg of the drill the crew have to transfer the water from the vehicle into the 200 litre drum, open a boom gate, remove an obstacle (tractor tube) from track and turn the vehicle around by reversing into the turning bay.

On the return leg the crew must close the boom gate, draft the water from the 200 litre drum into the vehicle water tank using the pump, proceed to the finish line and hit the target with a jet of water until the light on the target is activated to complete the drill.

CREW

The crew will consist of three members who will take up positions of their own choice on the vehicle prior to the commencement of the drill. The driver must have a current licence and be dressed in regulation competition uniform. The driver must at all times strictly adhere to the rules in the Road Traffic Act in relation to dangerous driving practices and the consumption of alcohol. The driver is not required to wear a helmet during the drill.

UNIFORM

Crew members will wear regulation competition uniform.

PENALTIES

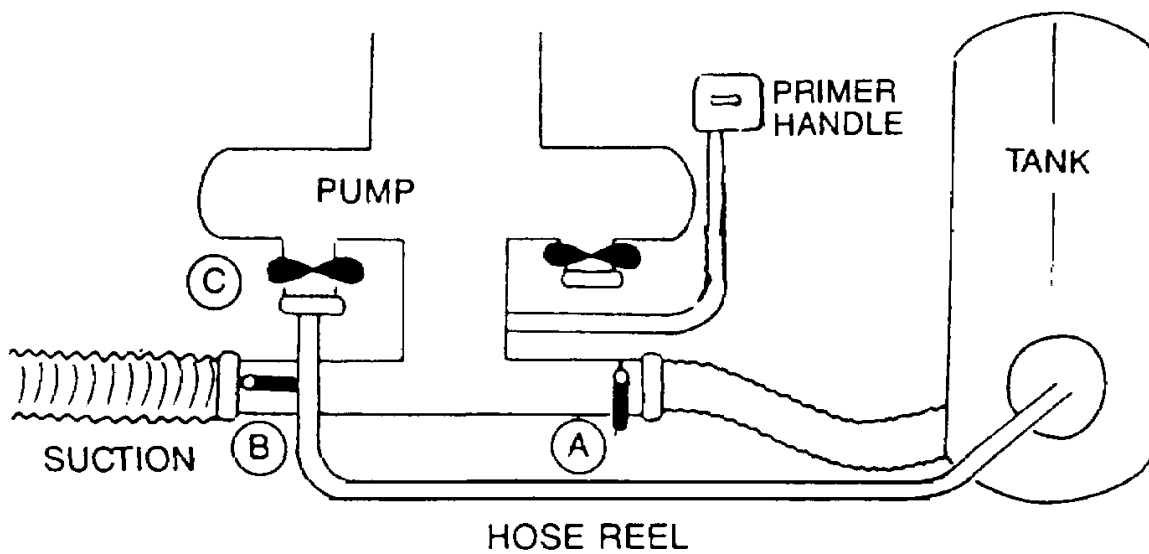
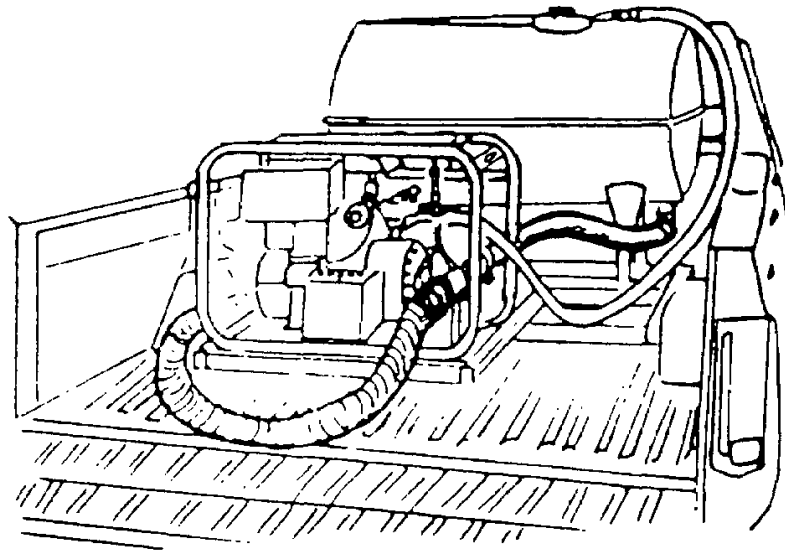
Each infringement of the rules of the Rural Drill will incur a 10 second penalty.

VEHICLE

All crews will use a utility vehicle supplied by Headquarters.

EQUIPMENT

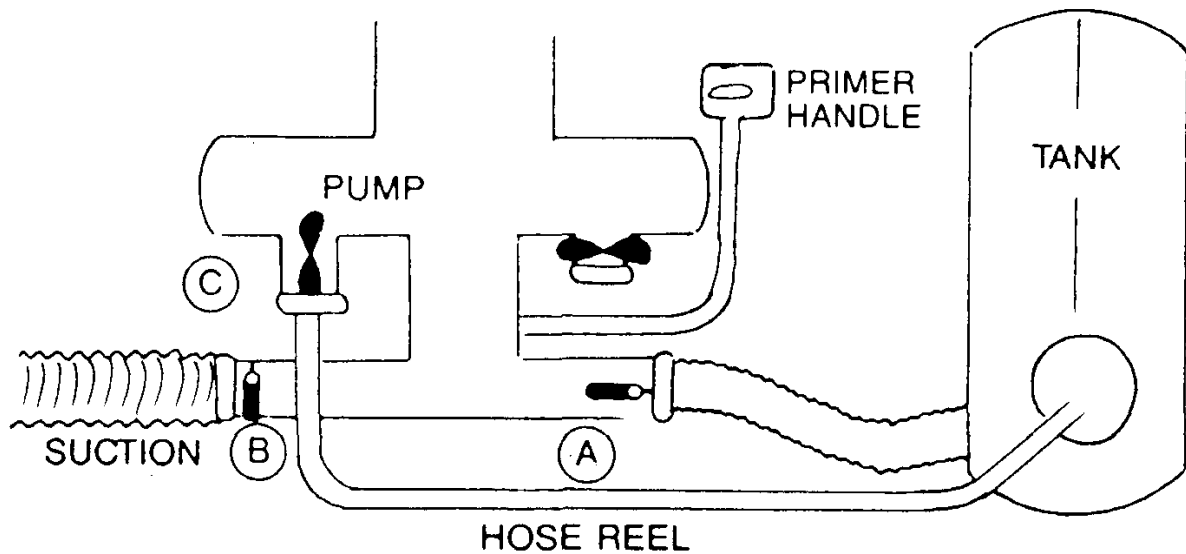
A drop-on unit consisting of a small pump, 450 litre tank, with a 6 mm nozzle and 3 m x 25 mm length of handline/suction hose.



To Draught

1. Open valve B. Close A & C.
2. Pull handle of primer with valve C closed until primed, then open to fill tank (remove branch to fill quicker).

EQUIPMENT cont...



To operate Hose Reel (to fill tank & hit target)

1. Close valve B.
2. Open valves A & C.

DRILL

The vehicle will have the hand brake on and the engine running prior to the commencement of the drill. The vehicle must remain in neutral gear until the starting signal. The pump engine will be running prior to the start of the drill.

Crew members must not mount or dismount from the vehicle when it is *moving*.

All three crew members must be on the vehicle when it arrives at (a) 200 litre drum, (b) Boom gate, (c) Tractor tube, (d) Target, and when it departs from the (a) 200 litre drum, (b) Boom gate, (c) Turn around point.

On the starting signal the vehicle will proceed to the 200 litre drum (which will have a 150 mm opening in the top) and using the handline fill it with water (from the vehicle tank) up to the 170 litre mark which will be indicated by the actuation of the blue flashing light above the drum.

The nozzle on the handline will only be hand tight to allow easy removal during the water transfer functions.

The vehicle will then proceed to the boom gate which has to be opened and secured by a crew member.

DRILL cont...

The vehicle must not proceed through the boom gate until the boom is fastened back.

The crew member opening the boom gate may remount the vehicle at the boom securing bollard point if desired.

On arrival at the tractor tube, a crew member removes the tube from the track.

The tractor tube must be over the indicated sideline before the vehicle can pass this point.

After removing the tractor tube from the track, the vehicle turns around by reversing into the side bay (directed by a crew member on foot) until the front wheels are behind the line.

During the turn-round sequence the vehicle must not hit the indicator poles nor should the vehicle go over the sidelines.

The vehicle returns through the boom gate opening and after a crew member has closed the gate and remounted, proceeds to the 200 litre drum.

The suction hose, which is connected to the pump is used to draft water from the 200 litre drum into the vehicle tank using the handline until the water in the drum is lowered to the 60 litre mark which will switch off the blue flashing light.

When the required amount of water has been transferred into the tank, the vehicle continues on to the target. The target can then be hit with the jet from the handline nozzle until the red light is activated to complete the drill. (N.B. Nozzle must be on the handline before directing water at the target.)

DISQUALIFICATION

A crew will be **disqualified** if any of the following irregularities occur during the drill.

- (1) Vehicle hitting the boom gate or tractor tube.
- (2) 200 litre drum not filled to required level (170 litre mark).
- (3) 200 litre drum not emptied to required level (60 litre mark).
- (4) Not closing boom gate.
- (5) Not removing the suction hose from the 200 litre drum before moving off.
- (6) Vehicle contacting any indicator, poles protruding over the boundary of the marked reversing area.
- (7) Vehicle driven without due care and safety for crew and spectators.

RURAL DRILL PENALTIES

The following infringements of the rules will each incur a 10 second penalty:

1. Nozzle not on the delivery hose when asked by the Marshal if all the team is ready.
2. Crew member outside of the safety rails on the vehicle while it is in motion.
3. Crew members having whistle or other devices protruding from the mouth while the vehicle is in motion.
4. Not fastening back the boom gate.
5. All crew members not on the vehicle on arrival at:
 - (a) 200 litre drum
 - (b) Boom gate
 - (c) Tractor tube
 - (d) Target barrier
6. All crew members not on the vehicle when it departs from:
 - (a) 200 litre drum
 - (b) Boom gate
 - (c) Turn around point
7. Vehicle proceeding past tractor tube before it is clear of the track (over marked sideline).
8. Vehicle not keeping within the marked track.
9. Dragging suction hose.
10. Dragging delivery hose.
11. Crew mounting or dismounting when the vehicle is in motion.
12. No crew member acting as guide when reversing.
13. Not wearing approved CFS uniform at the commencement and completion of the drill.
14. Driver not wearing seat belt or does not have the vehicle in neutral with the handbrake on at the commencement of the drill.

TUG A TRUCK

Description of Drill

Summary

A crew of 15 firefighters using the rope supplied pull a standard CFS fire appliance over a distance of 30 metres.

A driver will be in each vehicle to guide the appliances in a straight line and to ensure the vehicle is controlled at all times.

Rules for tug a truck

- 1.1 Firefighters shall be dressed in standard personal protective clothing
- 1.2 Firefighters shall wear gloves for the duration of the heat
- 1.3 A team consists of fifteen firefighters
- 1.4 There shall a maximum of one team from each Region. (Composite teams are allowed)
- 1.5 The fastest time recorded for all heats shall be the winning team

BEST CFS BRIGADE

A Best All Round Brigade will be selected at each Competition.

To be eligible, Brigades must enter in all five of the following:

Dry Hose Drill
Pump Drill
Alarm Race
Four Man Ladder
Rural Drill

Judging will be on the basis of the lowest point score for five events.

Points will be allocated for each event as follows:

1 – 1st
2 – 2nd
3 – 3rd
etc.