



Directorate of Maharashtra Fire Services
Maharashtra Fire Services Academy

INDUSTRIAL FIRE DRILL COMPETITION

ORGANISED BY DIRECTORATE OF MAHARASHTRA FIRE SERVICES
AND MUMBAI FIRE BRIGADE

: RULES, PENALTIES AND TROPHIES/SHIELDS :

In the industrial Fire Drill Competition the following Seven Events are included. Any Industry can participate in this Competition. The Officers, Staff workers, administrative staff or any other personnel working in the Industry, Administrative Establishment, Hotel or any other occupancy can participate in this competition.

The Events of the Competition are considered giving due consideration to the Fire Fighting Equipment to be used or handled by the employee/member concerned, in case of Fire Emergency.

The following events are included in the Competition:

EVENTS :

- 1. One man Fire Extinguisher Drill for Male Workers and Security Staff.**
- 2. One man Fire Extinguisher Drill for Officers.**
- 3. One man Fire Extinguisher for Female Workers & staff**
- 4. Kitchen Fire Drill for Female.**
- 5. One man Hose Reel Drill for male workers and staff.**
- 6. Two man Hydrant Drill for Officers.**
- 7. Four men two part Hydrant Drill with Team leader.**

NOTE : 1. Event number 3 & 4 will not be considered for judging over all Best Performance of the Team.

2. Event number 2, 6 & 7 will be considered for judging Best Officer of the year.

EVENT NO.1 : ONE MAN FIRE EXTINGUISHER DRILL FOR MALE WORKERS AND SECURITY STAFF.

This event will be contested by the **one participant** of each team. The individual timing of the participant from each group will be recorded and the group / team clocking average minimum timing will be declared winner of the event. The next best two teams will be declared Second and Third position.

Uniform & Equipment

- 1 x 4 Kgs. of ABC Type Stored Pressure-Squeeze Grip type (Ceasefire or other such make) extinguisher as per IS 15683
- Knee length Gum boots or Safety Shoes, Helmet with chin strop and Boiler Suits or Company's Safety Uniform and web belt (Canvas or Leather)

DRILL

A man on starting line runs 25 ft. to the equipment line. He collects the 4 kgs. extinguisher and runs 100 ft. and put out the petrol fire in the tray. He than runs with the extinguisher 15 ft. to the finishing line. The judge will blow the whistle on completion of drill. To all men taking part – ½ liter petrol in the tray will have a 10 seconds pre burn period before starter whistle is blown,

The event will be done individually by all the participates from the different Industries. Elimination rounds will be held one day earlier to select 4 finalists who clock minimum time in this event and for selection of the "Fireman of the Year".

Secondly the site which clocks the minimum time (combined timing of all the 4 participants of the Industry) will be declared as the winner of this event. These points will be considered for the team championship.

Judge's sides : There will be two sides of the drill event equipment side (rear side) and fire side (front side) for the judges. One Judge the performance as each side separately. There will be one more judge to blow the whistle, record the total timing of the event and will act as supreme referee.

Each judge will have stopped which with him for recording timing. The average time clocked by the three judges will be treated as the timing of the event. The whistle will be blown twice, starting and finishing.

The decision of the referee will be final.

NOTE :- Organizer of the drill events will not be responsible for any injury to the participant or damage to the equipment whatsoever.

Penalties

Seconds

(A) **Equipment side**

01.	Starting before the whistle	5
02.	Falling off helmet or other or any other uniform article	2
03.	Failing to replace helmet or any other uniform article, before reaching the finishing line/before final whistle.	5
04.	Falling off extinguisher or any extinguisher parts	5
05.	Operating extinguisher before crossing the starting line.	5
06.	Rough/improper handling of extinguisher.	2

(B) **Fire Side**

01.	Crossing operation line before actuating extinguisher	5
02.	Failing to actuate the extinguisher on the operator line.	5
03.	Rough/Improper handling of extinguisher	2
04.	Falling off helmet or other uniform article.	2
05.	Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle.	5
06.	Failing to close the extinguisher completely before reaching finishing line.	5
07.	Dispersing fuel (burning petrol) while extinction	10
08.	Falling off extinguisher or any extinguisher parts	5
09.	Failing to extinguish fire	Disqualified
10.	Failing to close down the extinguisher fully before reaching the finishing line	5

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EVENT NO.2 : ONE MAN FIRE EXTINGUISHER DRILL FOR OFFICERS

This event will be performed by Security Officers and other officers individually. The participant clocking Best minimum timing will be awarded First position and next two Best performances will be declared at Second and Third position.

Uniform & Equipment

- 1 x 4 Kgs. of ABC Type Stored Pressure-Squeeze Grip type (Ceasefire or other such make) extinguisher as per IS 15683
- Knee length Gum boots or Safety Shoes, Helmet with chin strop and Boiler Suits or Company's Safety Uniform and web belt (Canvas or Leather)

DRILL

A man on starting line run 25 ft. to the equipment line. He collects the 4 Kgs. extinguisher and runs 100 ft. and puts out the petrol fire in the tray. He then runs with the extinguisher 15 ft. to the finishing line. The extinguisher must be closed before reaching the finishing line. The judge will blow the whistle on completion of the drill.

To all men taking part ½ liters petrol in the will have a 10 seconds pre burn period before starter whistle is blown.

The event will be done individually by all the participants from the different industries. Elimination rounds will be held one day earlier to select 4 finalists who clock minimum time in this event and for selection of “Fireman of the Year”

Secondly the site which clocks the minimum time (combined timing of all the 4 participants of the Industries) will be declared as the winner of this event.

These points will be considered for the Team Championship.

Judge’s Sides : There will be two sides of the judges, event equipment side (rear side) and fire side (front side) for the judges will be deputed to judge the performance at each side separately. There will be one more judge to blow the whistle record the total timing of the event and will act as supreme referee.

Each judge will have stop watch with him for recording timing. The average time clocked by the three judges will be treated as the timing of the event. The whistle will be blown twice, starting and finishing.

The decision of the referee will be final.

NOTE : Organizer of the drill events will not be responsible for any injury to the participant or damage to the equipment whatsoever.

Penalties

Seconds

(A) Equipment side

01.	Starting before the whistle	5
02.	Falling off helmet or other or any other uniform article	2
03.	Failing to replace helmet or any other uniform article, before reaching the finishing line/before final whistle.	5
04.	Falling off extinguisher or any extinguisher parts	5
05.	Operating extinguisher before crossing the starting line.	5
06.	Rough/improper handling of extinguisher.	2

(B) Fire Side

01.	Crossing operation line before actuating extinguisher	5
02.	Failing to actuate the extinguisher on the operator line.	5
03.	Rough/Improper handling of extinguisher	2
04.	Falling off helmet or other uniform article.	2

05.	Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle.	5
06.	Failing to close the extinguisher completely before reaching finishing line.	5
07.	Dispersing fuel (burning petrol) while extinction	10
08.	Falling off extinguisher or any extinguisher parts	5
09.	Failing to extinguish fire	Disqualified
10.	Failing to close down the extinguisher fully before reaching the finishing line	5

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EVENT NO.3 : ONE MAN FIRE EXTINGUISHER FOR FEMALE WORKERS & STAFF

This event will be performed individually by all the female participants in a group of one each. The individual timing of each team/group will be recorded and the group, which clocks the minimum total timing to complete the event, will be declared winner of the event. The next two individual will be declared at Second and Third position.

Uniform & Equipment

- 1 X 2 Kgs. of Co2 Extinguisher-Squeeze Grip Type (Ceasefire or other such make) as per IS 15683
- Knee length Gum boots or Safety Shoes, Helmet with chin strop and Boiler Suits or Company's Safety Uniform and web belt (Canvas or Leather)

DRILL

A woman on starting line runs 25 ft. to the equipment line. She collects the 2 Kgs. Co2 extinguisher runs 50 ft. and put out the petrol fire in the tray (18 X 18). She then runs with the extinguisher 15ft. to the finishing line. The extinguisher must be closed before reaching the finishing line. The judge will blow the whistle on completion of the drill.

To all women taking part 150ml. Petrol in the tray will have 5 seconds pre burn period before starter whistle on completion of the drill.

Judge's Side : There will be two sided of the drill event equipment side (rear side) and fire side (front side) for the judges. One judge will be deputed to judge the performance at each side separately. There will be one more judge to blow the whistle, record the total timing of the event and will act as supreme Referee.

Each judge will have stop watch with him for recording timing. The average time clocked by the three judges will be treated as the timing of the event. The whistle will be blown twice, starting and finishing.

The decision of the referee will be final.

NOTE ; Organizer of the drill events will not be responsible for any injury to the participant or damage to the equipment whatsoever.

This event will not be considered for deciding best overall performance.

<u>Penalties</u>	<u>Seconds</u>
(A) <u>Equipment side</u>	
01. Starting before the whistle	5
02. Falling off helmet or other or any other uniform article	2
03. Failing to replace helmet or any other uniform article, before reaching the finishing line/before final whistle.	5
04. Falling off extinguisher or any extinguisher parts	5
05. Operating extinguisher before crossing the starting line.	5
06. Rough/improper handling of extinguisher (dragging)	2
(B) <u>Fire Side</u>	
01. Failing actuate the extinguisher on the operating line at the marked box.	5
02. Rough/improper handling of extinguisher	2
03. Falling off helmet or other uniform article.	2
05. Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle.	5
06. Failing to close the extinguisher completely before reaching finishing line.	5
07. Dispersing fuel (burning petrol) while extinction	10
08. Falling off extinguisher or any extinguisher parts	5
08. Failing to extinguish the fire	Disqualified

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EVENT NO.4 : KITCHEN FIRE DRILL FOR FEMALE

This event is an individual event for female worker or staff. The participant completing the event in Best minimum timing will be awarded First position and next two best performances will be declared at Second and Third position.

Uniform & Equipment

- 1 X 10 Lit. Capacity container
 - 1 No. Cloth size 2 ½ " X 2 ½ "
 - 1 bucket water
 - 1 wooden stool
-
- Knee length Gum boots or Safety Shoes, Helmet with chin strop and Boiler Suits or Company's Safety Uniform and web belt (Canvas or Leather)

DRILL :

One lady will be standing on the starting line as a distance of 50 ft. one 10 Lit. container will be kept with 1 lit. Diesel + 100 gm. Cotton waste + 25 ml. Petrol, one bucket of water and one 2 ½ " X 2 ½ " cloth will be kept at distance of 45 ft. from starting line.

On blow of starter whistle, the participant will run from starting line towards the bucket of water, pick up the cloth and dip it in the water protect the fingers and cover the fire container.

Then the participant will return to the starting line. The judge will be blow the whistle on the completion of drill.

Judge's Side : There will be two sided of the drill event equipment side (rear side) and fire side (front side) for the judges. One judge will be deputed to judge the performance at each side separately. There will be one more judge to blow the whistle, record the total timing of the event and will act as supreme referee.

Each judge will have stop watch with him for recording timing. The average time clocked by the three judges will be treated as the timing of the event. The whistle will be blown twice, starting and finishing.

The decision of the referee will be final.

NOTE ; Organizer of the drill events will not be responsible for any injury to the participant or damage to the equipment whatsoever.

This event will not be considered for deciding best overall performance.

Penalties

Seconds

(A) Equipment side

- | | | |
|-----|--|---|
| 01. | Starting before the whistle | 5 |
| 02. | Falling off helmet or other or any other uniform article | 2 |
| 03. | Failing to replace helmet or other uniform article, before reaching the finishing line/before final whistle. | 5 |
| 04. | Falling off equipment (bucket, cloth etc.) | 5 |
| 05. | Rough/improper handling of extinguisher. | 2 |

(B) Fire side

- | | | |
|-----|---|--------------|
| 01. | Finger not protected while extinguishing the fire | 5 |
| 02. | Failing to reach finishing line | Incomplete |
| 03. | Dispersing fuel (burning petrol) while extinction | 10 |
| 04. | Falling off fuel tray/stand while extinguishing the fire | Disqualified |
| 05. | Falling off helmet or other uniform article. | 2 |
| 06. | Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle. | 5 |
| 07. | Falling off equipment (bucket , cloth etc.) | 5 |
| 08. | Rough/improper handling of extinguisher | 2 |
| 09. | Fire not extinguished. | Disqualified |

EVENT NO.5: ONE MAN HOSE REEL DRILL FOR MALE WORKERS AND STAFF

Male workers & staff will contest this event. The Participants clocking best minimum timing will be awarded First position and next two best performances will be position at Second and Third.

Uniform & Equipment

- Knee length Gum boots or Safety Shoes, Helmet with chin strop and Boiler Suits or Company’s Safety Uniform and web belt (Canvas or Leather)

On starting whistle the participant will run 25 ft. towards the fire hose reel. Open the small valve and pull the hose 50 ft. towards the starter.

Then from the box hit the target which will be about 15 ft. from the box.

After hitting the target the participant will close nozzle and return to the hose reel. Close the hose reel valve and cross the starting line.

The judge will blow the whistle after crossing the starting line.

There will be two judges and referee.

Referee will blow the whistle (starting and finishing).

Referee and two judges will have stop watch with them.

Average time recorded in three watches will be considered the timing of the event.

Referee's decision will be final.

There will be two sides for judges.

- (a) Hose reel side (Pump side).
- (b) Fire side

NOTE : (I) For male distance between starting line and operating square will be 100 ft.

(II) Organizer of the Drill events will not be responsible for any injury to the participant or damage to the equipment whatsoever.

<u>Penalties</u>	<u>Seconds</u>
(A) <u>Hose reel side (Pump side)</u>	
01. Starting before first whistle	5
02. Opening hose reel valve before first whistle	10
03. Falling off helmet or other uniform article	2
04. Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle	5
05. Rough/Improper handling of hose reel	2
06. Failing to reach the finishing line at the end of the drill	Incomplete
07. Failing to rewind the hose reel completely	5
08. Failing to close hose reel valve completely	15
(B) <u>Fire side</u>	
01. Falling off helmet or other uniform article	2
02. Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle	5
03. Operating the nozzle valve before being in the operating square	5
04. Failing to remain in the operating square while fighting the fire/knocking the target (i.e. over-stopping or crossing the square line while fighting fire/knocking the target)	5
05. Leaving the square before knocking the target	Incomplete
06. Closing down the nozzle valve before knocking the target/ extinguishing the fire.	Disqualified

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EVENT NO.6 : TWO MAN HYDRANT DRILL FOR OFFICERS

This event consist of two men, one Officer who will perform the Drill and other man will assist him just to open and close the water supply. This event will be individually contested by the Officer and the Officer clocking best minimum timing will be declared winner, where as next two best performances will be given Second and Third position.

Uniform & Equipment

- Length of performance hose (1 X 50 ft.)
- Branch with 5/8" Aluminum Nozzle
- 2 drums filled with water

- Knee length Gum boots or Safety Shoes, Helmet with chin strop and Boiler Suits or Company's Safety Uniform and web belt (Canvas or Leather)

DRILL :

Equipment to be placed on hydrant line. Man to stand at ease on starting line. At starting whistle, runs to the hydrant line, collects a perma line hose and nozzle; fix 50' hose to the hydrant head, give water on signal, run it out around 2 water filled drums, insert the branch and hit the target from the box provided with the assistance of another person placed at the hydrant valve only under instruction from the competitor. The other person will be standing on the starting line facing the opposite direction. He will run to the hydrant post, only after receiving the signal from competitor. The permaline hose should be rolled back and kept on the finishing line i.e. the line from which the hose was picking up. The hose will have to be lifted above shoulder height while removing the water from the before rolling back (under running). Rolling could be done in a straight line. The hose could be rolled up using the lugs but keeping the coil even flat. The assistant will open and close the hydrant valve only after the instructions from the branch man.

Penalties

(A) Hydrant Side

Seconds

01.	Starting before first whistle	5
02.	Falling off helmet or other uniform article	2
03.	Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle	5
04.	Leaving hydrant unattended after water is turned on	5
05.	Lay out hose improperly not correcting immediately	2
06.	Rough/improper handling of equipment	2
07.	Dropping off equipment (branch, coupling etc.)	5
		for each error

(B) Fire side

- | | | |
|-----|--|----------------|
| 01. | Putting down or leaving branch unattended | 2 |
| 02. | Rough/Improper handling of equipment | 2 |
| 03. | Dropping off equipment (Branch, coupling etc.) | 5 |
| | | for each error |
| 04. | Lay out hose improperly, not correcting immediately | 2 |
| 05. | Failing of helmet or other uniform article | 2 |
| 06. | Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle | 5 |
| 08. | Rolling the hose improperly (i.e. with coiled protruding out) | 5 |
| 09. | Failing to hit target | Disqualified |
| 10. | Missing the gears on the ground | 5 |
| | | for each error |
| 12. | Failing to remain in the box provided while hitting the target | 5 |
| 13. | Failing to run the hose around the drum for each offence | 5 |

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EVENT NO.7 : FOUR MEN TWO PART HYDRANT DRILL WITH TEAM LEADER

This is team event consist of four members. The team clocking the minimum timing will be declared winner of the event and next two best performances will be declared at Second and Third position.

Uniform & Equipment

- Lengths of hose (3 X 50 ft.)
- Dividing breaching (Gun metal)
- Branches with 5/8" nozzle
- Knee length gum boots, helmet with chin strap & web belt (canvas or leather)
- Knee length Gum boots or Safety Shoes, Helmet with chin strop and Boiler Suits or Company's Safety Uniform and web belt (Canvas or Leather)

DRILL :

Equipment to be placed behind equipment line either side of the hydrant box. Men to stand at case 25 ft. on the start line, facing hydrant. The official starter will blow whistle to commence drill, followed by the team leader giving subsequent orders by whistle as indicated below and he is not permitted to give any other assistance to his team.

Part I

From the hydrant run 3 X 50 ft. length of hose, connect branch, water on and strike the target, whistle, water can be turned on at any time after the starter's whistle.

Part II

Disconnect branch, under run and roll up last 2 X 50 ft. lengths of hose connect divider to 1X 50 ft. length of hose (one from the hydrant) reconnect and run out (2 X 50 ft.) lengths from the divider, connect branches (2), water on strike targets (2), whistle.

Part III

Under run and roll up all 3 hoses and keep on the hydrant lines at which point the official starter will blow final whistle. The drill ends when all equipments (3 hoses, dividing breaching and branches) are kept on the hydrant line.

NOTES :

A person must manage hydrant post and connected branch after water has been turned on. Hydrant will be inside a 6 ft. square and at least his one foot must be in the square at all times.

At the end of Part I, there must be 2 persons on the branch and 2 persons on the equipment line. At the end of Part II, there must be one person at each branch, one at hydrant and one at the 2' X 4' box.

Hoses must be under run and completely rolled for immediate reuse after Part I and at the end of the drill. Hoses must not be partially rolled, then connected, flaked or dragged into position.

Hoses could be rolled using lugs. There will be three judges and one referee to blow the whistle.

Referee and two judges will have stop watch with them.

Averaged time recorded in three watches will be considered the timing of the event. The referee will blow the whistle (starting & finishing).

Referee decision will be final

There will be three sides of

- (a) Hydrant side
- (b) Fire side (left)
- (c) Fire side (right)

NOTE : Organiser of the drill events will not be responsible for any injury to participant or damage to the equipment whatsoever.

Penalties

Seconds

(A) Hydrant Side

- | | |
|---|---|
| 01. Starting before first whistle | 5 |
| 02. Falling off helmet or other uniform article | 2 |

- | | | |
|-----|--|----------------|
| 03. | Failing to replace helmet or other uniform article before reaching the finishing line / before final whistle | 5 |
| 04. | Leaving hydrant unattended after water is turned on | 5 |
| 05. | Lay out hoses improperly not correcting immediately | 2 |
| 06. | Rough/Improper handling of equipment | 2 |
| 07. | Dropping off equipment (branch, coupling etc.) | 5 |
| | | for each error |
| 08. | Starting to unroll hose before reaching the marked line before it is accepted by the colleague or coupled | 5 |

(B) Fire Side (Left)

- | | | |
|-----|--|----------------|
| 01. | Not placing breaching with lugs uppermost | 2 |
| 02. | Hose crossing either side of the breaching | 2 |
| 03. | Not placing, breaching of coupling in area provided (2' X 4') properly | 2 |
| 04. | Starting another section of drill before signal/whistle from the team leader | 10 |
| 05. | Team leader, giving signal/whistle for next part before previous part is completed | 5 |
| 06. | Putting down or leaving branch unattended | 2 |
| 07. | Branch man knocking down second target before his own target is knocked | Disqualified |
| 08. | Falling of helmet or other uniform article | 2 |
| 09. | Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle | 5 |
| 10. | Lay out hoses improperly not correcting immediately | 2 |
| 11. | Rough/Improper handling of equipment | 2 |
| 12. | Dropping off equipment (Branch, Coupling etc.) | 5 |
| | | for each error |
| 13. | Team leader assisting in any event other than signal | Disqualified |
| 15. | Rolling the hose improperly (i.e. with coils protruding out) | 5 |
| 16. | Filing to his target | Disqualified |
| 17. | Missing the gears on the ground | 5 |
| | | for each error |

(C) Fire side (Right)

- | | | |
|-----|---|----|
| 01. | Not placing breaching with lugs uppermost | 2 |
| 02. | Hose crossing either side of the breaching | 2 |
| 03. | Not placing breaching or coupling in area provided (2'X4') properly | 2 |
| 04. | Starting another section of drill before signal/whistle from the team leader | 10 |
| 05. | Team leader giving signal/whistle for next part before previous part is completed | 5 |
| 06. | Putting down or leaving branch unattended | 2 |

07.	Branch man knocking down second target before his own target is knocked	Disqualified
08.	Falling of helmet or other uniform article	2
09.	Failing to replace helmet or other uniform article before reaching the finishing line/before final whistle	5
10.	Lay out hoses improperly not correcting immediately	2
11.	Rough/Improper handling of equipment.	2
12.	Dropping off equipment (branch, coupling etc.)	5
		for each error
13.	Team leader assisting in any event other than signal	Disqualified
15.	Rolling the hose improperly (i.e. with coils protruding out)	5
16.	Failing to his target	Disqualified
17.	Missing the gears on the ground	5
		for each error

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DIRECTOR, MAHARASHTRA FIRE SERVICES
General Instructions

01. Team having an in-charge official nominated by the team, who may be a member of it and will be responsible for the team. He will be the only person permitted to raise objections and may protest of behalf of the same.
02. Any objection or protest must be made to the recover immediately following the competition of the drill.
03. Penalties will be imposed form any infringement shown on the list of penalties.
04. In the event of a burst length or a mechanical fault developing on the pump, which in the opinion of the judges is not due to neglect or mistake on the part of the competitions, re-run will be allowed.
- 05, Dress will be protective helmet, knee length rubber boots (Gum Boot) or safety shoe, boiler suits or Company's Safety Uniform and web belt / leather belt.
06. Hydrant will be stand post type with wheel type screw-down valves. Butterfly type lug will be used.
07. Pressure release couplings on hose will not be allowed. Brach pipes will be short standard pattern with the 5/8" nozzle.
08. The pre burn timing will be as decided for each event.
09. For all the hydrant drill events and hydrant pressure shall not exceed 5 bars.
10. Judges decision will be treated as final.
11. Revision or change in any instructions mentioned herein above remains in the authority of Organizer with pre-intimation to the participants.

**ROTATING TROPHIES AWARDED FOR OVER ALL BEST PERFORMANCE
IN INDUSTRIAL DRILL COMPETITION**

01. **Awards, Trophies, Shields and Certificates**

The winners of the events at the first, second and third positions will be awarded with certificates, Trophies and Shields as per the norms and rules of the Competitions.

02. **Best In-charge in Industrial Drill Competition:** The Fire officer clocking best timing in the event 2 & 6 will be declared winner of this award.

03. **Best Male Performer in Industrial Drill Competition:** This is an individual award. The Worker staff participating in the event 1,5, & 7 and having individual best performances will be judged by the Judges in all aspects such as uniform, efficiency and drill performances and will be declared winner of this prize.

04. **Best Female Performer in Industrial Drill Competition:** The Woman Worker staff clocking best timing and having best performance in all aspects such as efficiency, equipment handling will be declared winner of this award. The events 3 & 4 are considered for the prize.

