



APWA
Va. D.C. Md. Chapter
Standards & Guidelines

2002 Edition

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EQUIPMENT RODEO OVERVIEW

Any capable manager, experienced supervisor or hard working labor force member knows the value of a good heavy equipment operator. The operators can be responsible for saving money as well as the back of their fellow employees. The nature of those who excel in the profession is to perform their job duties routinely and without much fanfare. It is rare that there is opportunity to display their talents in competitive setting.

The American Public Works Association (APWA) Equipment Rodeo affords the heavy equipment operator this opportunity. As a contestant, he or she will be competing with motorized equipment professionals from other municipalities or political entities. The focus of the competitions is on safe, fundamental driving and skillful operation of specialized heavy equipment. The rodeo events are tied directly to standard job requirements. Participation in this event could be very rewarding to your organization.

The desired outcome of the rodeo:

- To recognize operators of heavy equipment
- To promote professional fellowship through good natured competition
- To enhance driving and operation skills associated with heavy equipment
- To emphasize safe operation of heavy equipment
- To cultivate team work
- To boost employee morale

The concept and guidelines for the rodeo contained in this booklet are a collection of operational guidelines that have been developed over the past years by the Tennessee Chapter of APWA, the Virginia-District of Columbia-Maryland Chapter of APWA and Baltimore County Department of Public Works.

These operational guidelines have been standardized by a team of members of the Virginia-District of Columbia-Maryland Chapter APWA. The members currently are:

Ray Bass - Baltimore County, Maryland - Department of Public Works
Dave Driscoll - City of Virginia Beach - Department of Public Works
Mike Evins - City of Richmond, Virginia - Department of Public Works
Tom Gough - City of Lynchburg, Virginia - Department of Public Works
Scott Talbott - Baltimore County, Maryland - Department of Public Works

Initial Planning

- Obtain all available information and supplies from previous rodeo coordinator
- Recruit vendors for loan/demonstration of equipment for each event.
- Establish similar back up equipment for each event.
- Recruit vendors for "Goodie Bags" for each rodeo participant*
 - Number of bags depends on location of event - 125-150 (for each participant)
 - Give goodie bags to each volunteer is available
 - Items to include: pens, pencils, pocket note pads, ruler, key rings, etc...
- Recruit vendor(s) to sponsor T-shirt for each participant
 - Vendor (2) logo on left sleeve
 - APWA Rodeo (year) left pocket area
 - Rodeo cartoon on back
 - Need extra shirts for sale or drawing prizes
- Recruit vendor(s) for grand and other prize(s)
 - Mail letters to vendors
 - Follow up in 30 days
- Obtain coordinators for area responsibilities
 - Conference registration and awards (1)
 - On site registration (3) - third person gives goodie bags and then records scores on scoreboard
 - Events (one for each event) - each recruit five (5) volunteers from their locality
 - Volunteers are randomly selected for event judges
 - Event site support (1)
- Furnish golf shirts or T-shirts for judges, volunteers, etc.
- Planning meetings to meet twice a month at first and then weekly from March until event.
- Coordinate rodeo meal with conference food coordinator - issue ticket for each meal
- Establish awards:
 - Cash awards of \$150.00 for 1st place and \$75.00 for 2nd place of each event
 - Pre-printed certificates for 1st, 2nd and 3rd place winners of each event
 - Plaques/trophies for each 1st place winner
- Recruit equipment vendors for all pieces of equipment (backhoe, bucket truck, street sweeper, front-end loader, refuse truck and knuckle boom) expect snowplows. Two identical dump truck units equipped with a snowplow and a spreader should be obtained from a state agency if available. If not available, should be obtained locally.

*Optional

ON SITE EQUIPMENT & SUPPLY CHECKLIST

ITEM	SUPPLIED BY	CONFIRMATION
Tandem Dump		
Stone [2 loads]		
Drums [40]		
Traffic Cones [150]		
Pads for Backhoe		
Covered Stage		
Tables [2]		
Chairs [12]		
Temp Traffic Tape		
Shirts [200]		
Plaques [1 st place]		
Certificates [2 nd & 3 rd place]		
Prize Money \$150-1 st , \$75-2 nd		
Score Sheets [50/event]		
Score Boards [10, 2' x 4']		
Bricks w/holes [24]		
Plywood [2 - 4' x 4']		
Stop watches [7]		
Clip Boards [9]		
Permanent Markers [3]		
Pens [12]		
Chalk Line [150ft]		
25 ft Tape measure [1]		
100 ft Tape measure [1]		
2 lb. Mall [1]		
Case Hardened Nails [12]		
Rodeo Barricades [10]		
Grading Stick (Pig Pen)		
Grading Stick (Alley Dock)		
Metal Plates (right hand curve) [5]		
Lacrosse ball with holders (Pit) [10]		
Stansions - Small (Mirror) [5]		
Stansions - Large (Mirror) [5]		

STANDARDS AND PROCEDURES

There will be seven events for each conference rodeo: backhoe, bucket truck, street sweeper, front-end loader, snow plow, refuse truck (side loader) and knuckle boom.

- New equipment will be utilized from vendors for all events except the snow plow event. The snowplow will come from a locality in the conference area. Two similar units will be needed for each event (primary and a back up unit).
- The registrations will be limited to two hundred participants on a first come, first served basis. Each locality can have no more than two participants per event or a maximum of fourteen registrations.
- The rodeo schedule will be as follows:

Registration	8:00 AM – 9:00 AM
Rodeo Events	9:00 AM – 12:00 Noon
Lunch	12:00 Noon – 12:45 PM
Rodeo Events	12:45 PM – 3:00 PM
Awards Presentation – at Reception	
- The maximum number of participants and other standards are established for each event.

Snowplow – thirty participants maximum

Backhoe – forty participants maximum

- one minute preparation time for familiarization with controls
- rental unit can be utilized for event if loaner is not available

Front End Loader – Thirty participants maximum

- one minute preparation time for familiarization with controls
- rental unit can be utilized for event if loaner is not available

Knuckle Boom – thirty participants maximum

- one minute preparation time for familiarization with controls

Refuse Truck – twenty participants maximum

- one minute preparation time for familiarization with controls

Street sweeper – twenty – five participants maximum

- one minute preparation time for familiarization with controls

Bucket Truck – twenty-five participants maximum

- one minute preparation time for familiarization with controls

- There will be a maximum of two hundred participants for the rodeo
- The recommended measurements of the snow plow, front end loader, and refuse truck events can be adjusted to allow close tolerances between the vehicle/equipment operation to the traffic drums, cones, and other course fixtures. The course measurement adjustments are to be made to stress skill and safety – not speed.
- Any rodeo event participant that completes the event in an unsafe manner can be disqualified for that event.
- Any requests for deviations from these standards and procedures must be forwarded to a team member of the Virginia – District of Columbia – Maryland Chapter of the APWA. The request(s) will be reviewed and the recommendation of the team will be forwarded to the APWA Chapter Directors for consideration. The Director's decisions will be directed to the requestor through the rodeo standards team.

BACKHOE

OBJECTIVE:

This event is to test the operator's skills in the use of the backhoe by moving a pin from one location to another using a hook attached to the bucket. Time limit for this event is four (4) minutes.

PROCEDURES

The bucket will be in the folded position with outriggers in place and the engine running at idle speed. The driver will signal when ready by blowing the horn and their time will start. The participant must pick up a metal pin (12" long x 1" in diameter) with a hook on a swivel attached to the bucket; swing approximately 90 degrees to the left and insert the metal pin into the top of a traffic cone with an inside diameter of 1 3/8 inch. If the metal pin is dropped, time will stop and the participant will get a restart which will include the added penalty seconds and time from the first start. Only one (1) restart will be allowed. The time stops once the bucket has been folded and placed back into starting position on the pavement. A maximum of four (4) minutes will be allowed to complete the event or the participant will be disqualified. Idle speed will remain the same for all participants. This event will be based on total time.

PENALTIES

Fifteen (15) seconds penalty – if pin is dropped

Five (5) seconds penalty – for not returning the bucket to a folded position on the Pavement

A maximum of four (4) minutes will be allowed to complete the event or the Participant will be disqualified.

EQUIPMENT RODEO SCORE SHEET BACKHOE

NAME: _____

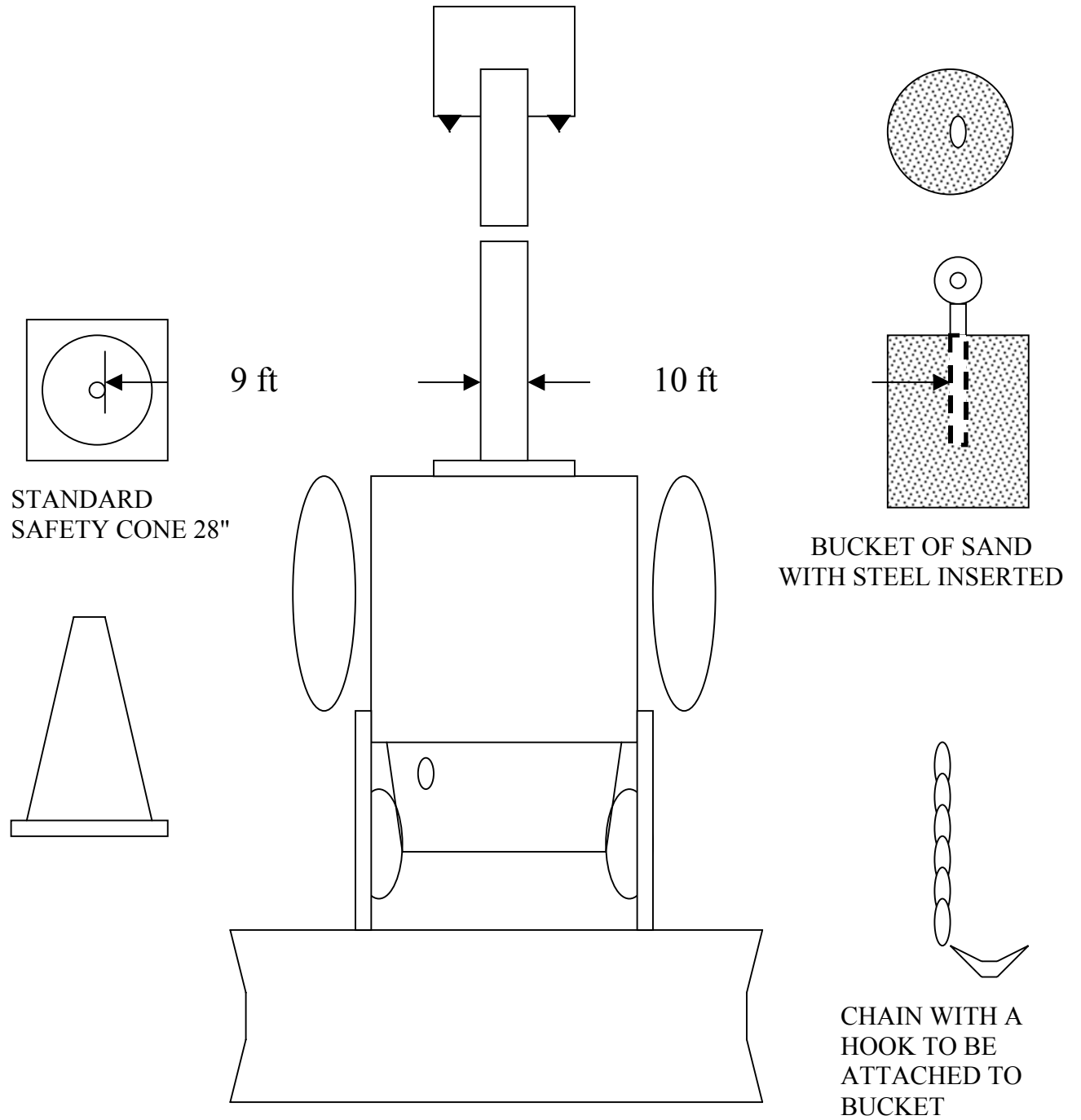
MUNICIPALITY: _____

****NOTICE**** A maximum of four (4) minutes will be allowed to complete this event, or the participant will be disqualified.

Completed event time before penalties (min/ sec)-----			
PENALTIES	# OF SECONDS PER PENALTY	# OF TIMES	TOTAL TIME
DROP METAL PIN	15 SEC		
PLACEMENT OF BUCKET IN FOLDED POSITION ON PAVEMENT	5 SEC		
Total Penalty Time (Min/ Sec)-----			
Total Time (Event Time + Penalty Time-----			

Judging this event was _____
Please print name

BACKHOE TYPICAL SET-UP



BUCKET TRUCK

OBJECTIVE:

The event is designed to test the skills of the operator in the proper operation of the bucket truck. Each operator will be required to have the following safety equipment; hard hat, full body harness (must meet electrical standards), safety glasses, and work gloves.

Each operator will be required to change a light bulb in a traffic light head attached to a light pole, eighteen to thirty-five feet in the air. There will be three (3) different colored light bulbs used in this event. All safety precautions will be taken! (All safety equipment must fit the operator for this event.) This event will be based on total time.

PROCEDURE:

Time starts when the operator is in the bucket truck with the seat belt on. The operator will sound the horn to begin. The operator must get out of truck, chock a rear tire (left or right side of truck), and install proper 45-degree angle taper w/cones. The operator will then proceed to replace a pre-designated bulb in a safe and proper manner. Time will not be stopped if the operator drops a bulb and has to come back for a replacement. Once the bulb has been changed, the operator must place the bucket back in proper placement. The operator must remove and place the traffic cones in their proper place, then place the wheel chocks in the proper place. The operator will then get back into the truck and place seat belt in the proper position and sound the horn to stop time.

PENALTIES:

- Sixty (60) second penalty- for not using a seat belt
- Thirty (30) second penalty- for hitting light head with the bucket
- Ten (10) second penalty- for dropping a bulb
- Ten (10) second penalty- for changing the wrong bulb
- Thirty (30) second penalty- for not placing the bucket in the cradle
- Ten (10) second penalty for not chocking wheels
- Ten (10) second penalty for not setting cones on 45 degree angle
- Twenty (20) second penalty for not using safety harness properly

EQUIPMENT RODEO SCORE SHEET

BUCKET TRUCK

NAME: _____

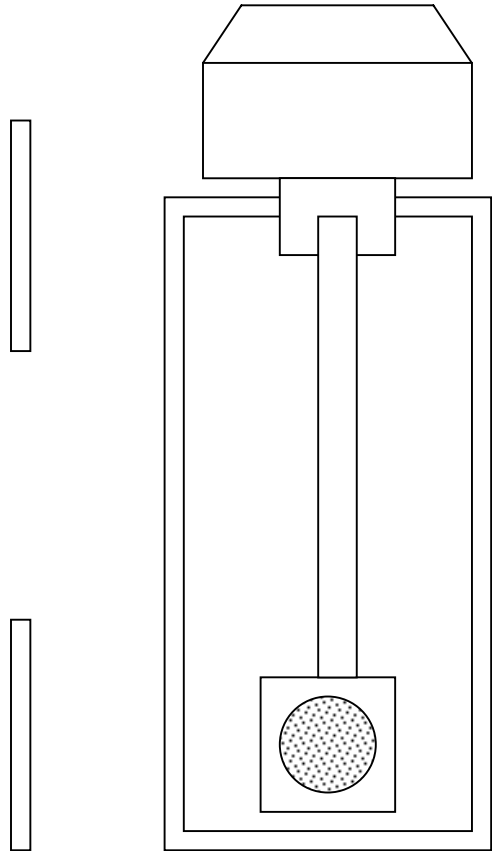
MUNICIPALITY: _____

Completed event time before penalties (min/ sec)-----			
PENALTIES	# OF SECONDS PER PENALTY	# OF TIMES	TOTAL TIME
For not using seat belt	60 Sec		
Hitting light head with bucket	30 Sec each time		
For dropping the bulb	10 Sec each time		
For changing the wrong bulb	10 Sec		
Not properly using wheel chocks	10 Sec		
Harness not being used properly	20 Sec		
Cones not on 45 degree angle	10 Sec		
For NOT putting bucket back in cradle	30 Sec each time		
Total Penalty Time (min/ sec)-----			
Total Time (event time + penalty time)-----			

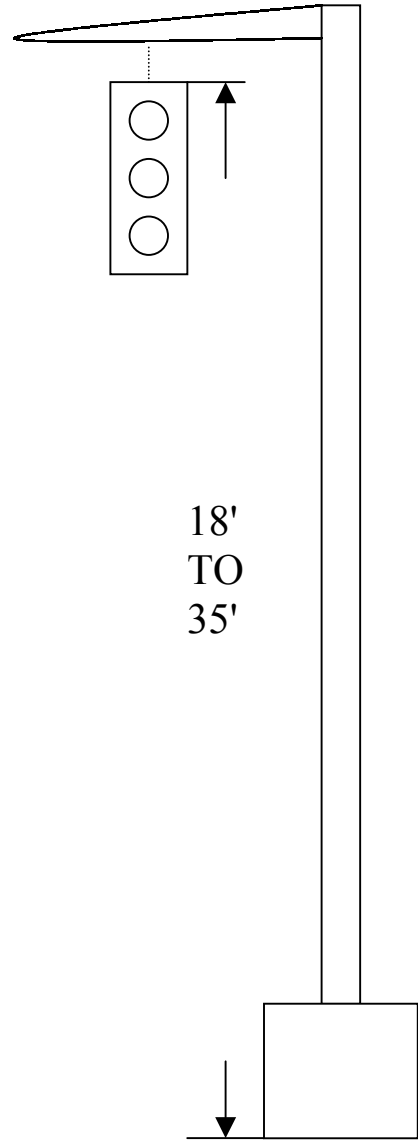
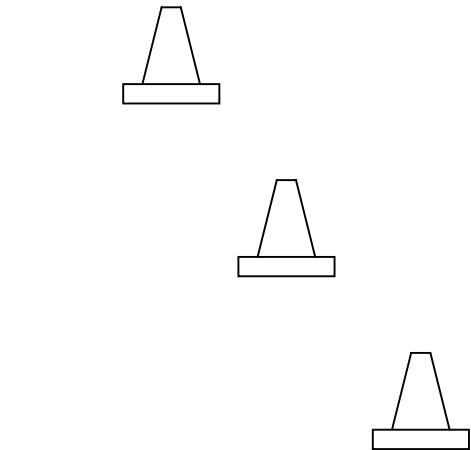
Judging this event was _____

Please print name

BUCKET TRUCK TYPICAL SET-UP



SAFETY CONES
AT 45-degree angle



18'
TO
35'

LIGHT POLE

5- C

STREET SWEEPER

OBJECTIVE:

This event is to test the operator's skill in the use of a street sweeper, while traveling through set obstacles. This event will be based on total time.

PROCEDURE:

The street sweeper will be at the start line with the motor at idle speed and brooms up. Time will start when the driver signals the starter by blowing the horn. The driver will proceed forward while lowering the brooms. The driver will proceed around the barrels/cones that simulate parked vehicles and trash containers. At the end of the course, the driver will pull up to the start line and back into the designated stop lane. Time will stop when the driver sounds the horn.

PENALTIES:

Twenty- five (25) second penalty- for each barrel touched

Twenty- five (25) second penalty- for each cone touched

Ten (10) second penalty- each time the broom rides up the face of the curb

Three (3) second penalty- for each occurrence and between each obstacle will be assess anytime the broom is not within six (6) inches from the back of the gutter pan.

Three (3) second penalty- will be given for each inch past the front edge of the designated stop line.

One (1) second penalty- will be given for each inch the sweeper indicator stops From the front edge of the designated stop line.

EQUIPMENT RODEO SCORE SHEET STREET SWEEPER

NAME: _____

MUNICIPALITY: _____

Completed event time before penalties (min/ sec)-----			
PENALTIES	# OF SECONDS PER PENALTY	# OF TIMES	TOTAL TIME
Contact with traffic barrel	25 Sec each barrel		
Contact with traffic cone	25 Sec each cone		
Broom rides up curb face	10 Sec each time		
Within 6 inches, from the back of gutter pan	3 Sec each time outside		
Finish in front of stop line	1 Sec Per Inch		
Finish behind stop line	3 Sec Per Inch		
Total Penalty Time (min/ sec)-----			
Total Time (event time + penalty time)-----			

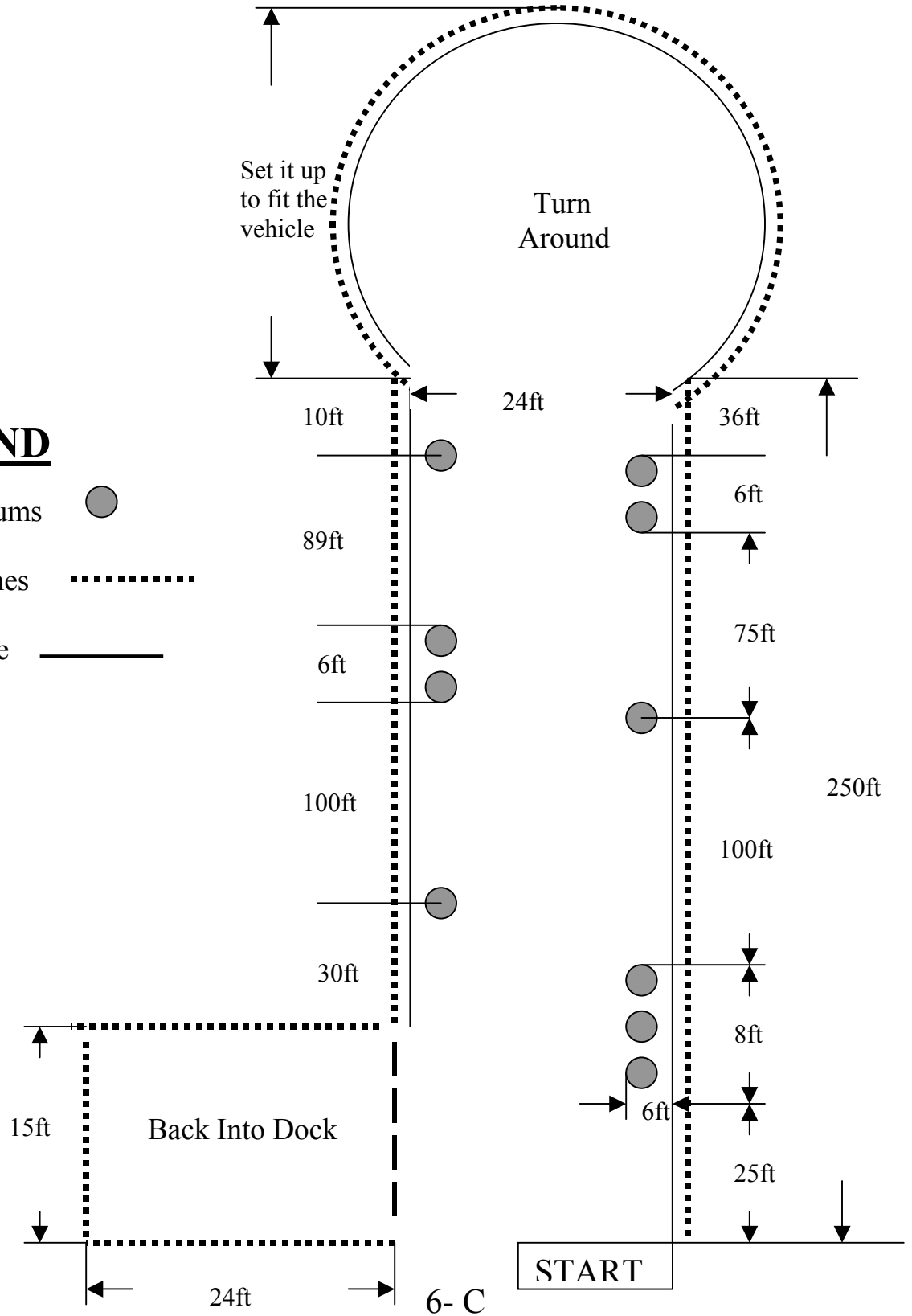
Judging this event was

Please print name

STREET SWEEPER TYPICAL SET- UP

LEGEND

- Traffic Drums
- Safety Cones
- Gutter Line



6- C

FRONT END LOADER

OBJECTIVE:

This event is to test the operator's loading skills (#57 wash stone); drive through a specified course; empty the stone into a tandem dump truck; drive backwards through a serpentine course and return to the designated parking space, brake and lower bucket to pavement. This event will be based on total time.

PROCEDURE:

Beginning at the starting line with the loader at idle speed, the operator shall buckle their seatbelt. The driver will release the parking brake and signal when ready by blowing the horn. The driver must load the bucket, at least half full, with stone from the stockpile of #57 stone. To reduce spillage en route to the dump truck, do not overload the bucket. The driver will then drive forward between the traffic barrels in a serpentine manner and empty the stone into the dump truck. The driver must then back through the traffic barrels in a serpentine manner and return to the designated stop line without making adjustments. Time stops when the driver has lowered the bucket to the pavement, has set the parking brake, and has sounded the horn to let the starter know that he/ she had completed the course.

PENALTIES:

- Five (5) second penalty- for bucket less than one half full
- Five (5) second penalty- each time material is spilled from bucket
- Fifteen (15) second penalty- if any part of the front end loader comes in contact with the dump truck or side boards
- Thirty (30) seconds penalty- for any stone materials left in the bucket after dumping
- Twenty- Five (25) seconds penalty- for each barrel touched
- Five (5) second penalty- for each cone touched
- Fifteen (15) second penalty- each time for driving outside of the course
- One (1) second penalty- each inch the loader counterweight stops from the front edge of the designated stop line
- Three (3) seconds penalty- each inch past the front edge of the designated stop line

EQUIPMENT RODEO SCORE SHEET FRONT END LOADER

NAME: _____

MUNICIPALITY: _____

Completed event time before penalties (min/ sec)-----			
PENALTIES	# OF SECONDS PER PENALTY	# OF TIMES	TOTAL TIME
BUCKET LESS THAN HALF FULL	5 SEC		
SPILL STONE FROM BUCKET	5 SEC EACH SPILL		
STONE LEFT IN BUCKET AFTER DUMPING	30 SEC		
CONTACT WITH DUMP TRUCK	15 SEC EACH CONTACT		
CONTACT WITH TRAFFIC BARREL	20 SEC EACH BARREL		
CONTACT WITH TRAFFIC CONE	5 SEC EACH CONE		
DRIVER OUTSIDE OF COURSE	15 SEC EACH INCIDENT		
FINISH IN FRONT OF STOP LINE	1 SEC PER INCH		
FINISH BEHIND STOP LINE	3 SEC PER INCH		
Total Penalty Time (Min/ Sec)-----			
Total Time (Event Tme + Penalty Time-----			

Judging this event was _____

SNOW PLOW COURSE GUIDELINES

OBJECTIVE:

The objective of this event is to test the operator's skills in the operation of a truck mounted with snowplow and chemical spreader through a course of various maneuvers to a designed finish line.

PROCEDURE:

The truck mounted with snowplow and chemical spreader will be at the starting line with the engine at idle speed and the parking brake on. The operator shall buckle their seat belt, release the parking brake and signal the starter when ready by sounding the horn. This event will be based on total time.

Triple Offset

The first event will be the triple offset. Drive through the barriers in a forward direction (no backing up) without touching the barriers and you will receive the ten (10) points for each completed. If a driver touches a barrier, the judge will blow the whistle and stop the driver, in order to move the barrier back. The judge will then flag the driver forward to continue, as the time is restarted.

Pig Pen

The second event is referred to as the pig-pen. Drive past the penned in area and **back** into the pen on an offset from the blind side. The objective here is to back up as close to the rear barrier as possible without touching it. Once there, the driver will place the vehicle in park and blow the horn to let the judge know to stop the timer. The driver will be scored as to how close they are to the rear barrier fifty (50) points will be awarded if the driver gets within inches of the rear barrier without touching any other barrier on the way in. Touching any barriers gets a zero (0) score. The distance from the rear barrier will be measured and the points will be assessed from there. If a driver touches a barrier, the judge will blow the whistle and stop the driver and the time, in order to move the barrier back. The driver will then be flagged forward to the next event by the judge as the time is restarted.

Right Hand Curve

The third event is the right- hand curve. The object here is to drive around the curve keeping the right rear tire as close to the curb as possible. There will be markers in five spots around the curve from which the driver is scored. Each marker has a maximum point value of ten (10) and there is a potential of fifty (50) points. Each marker will have a red area and a white area. The red area is worth ten (10) points, the white area is worth five (5) points, and missing the mark earns the driver a zero (0) points for that particular marker. Touching the curb gives the driver a “0” for this event.

SNOW PLOW

COURSE GUIDELINES

The Pit

The fourth event is the pit. The object of this event is to drive over the obstacles without knocking them over for a possible score of fifty (50) points. The obstacles will be set in pairs of two (2) for a total of five (5) sets. Worth ten (10) points per pair, totaling fifty (50) points for this event. If the driver knocks over one of the obstacles in a pair, they do not receive the ten (10) points for that pair.

Mirror Obstacle

The fifth event is the mirror obstacle. The object is to maneuver the vehicle through the obstacles without the mirrors hitting them, for a total score of fifty (50) points. The obstacles will be set on a right-hand curve. There will be five tall obstacles on the inside of the curve which will be mirror high. There will also be five obstacles on the outside of the curve, which will be set low for the tires or the bumper. Each pair of obstacles is worth a possible ten (10) points, totaling fifty (50) points when the driver makes it through all five pairs. If the vehicle touches one of these obstacles, the driver does not receive the possible ten (10) points for that pair.

Alley Dock

The sixth event is the alley dock. The objective here is to pull up as close to the front barrier as possible without touching it. Once there, the driver will place the vehicle in park and blow the horn to let the judge know to stop the timer. The driver will be scored as to how close to the front barrier they are, fifty (50) points will be awarded if the driver gets within inches of the front barrier without touching any other barriers on the way in. Touching any barrier gets a zero (0) points. The distance from the front barrier will be measured and the points will be assessed from there. If a driver touches a barrier, the judge will blow the whistle and stop the driver and the timer in order to move the barrier. The driver will then be flagged forward to the next problem by the judge and the time is restarted.

Serpentine

The seventh event is the serpentine. The objective is to maneuver the vehicle through the four (4) safety drums without touching any, with a total possible score of forty (40) points. The obstacles will be equally spaced in a straight line if the vehicle touches one of these obstacles, they will not receive ten (10) points for each one touched.

EQUIPMENT RODEO SCORE SHEET SNOW PLOW

NAME: _____

MUNICIPALITY: _____

OBSTACLES	PENALTY/ POINTS	SCORE
Triple Offset (30 points)	10 points, each set completed	
Pig Pen (50 points)	subtract 5 points from 50, every 3" away	
Right-Hand Curve (50 points)	10 points, each set completed	
Pit (50 points)	10 points, each set completed	
Mirror Obstacle (50 points)	10 points, each set completed	
Alley Dock (50 points)	subtract 5 points from 50, every 3" away	
Serpentine (40 points)	10 points, each set completed	
Score only		
Penalties , subtract 10 points for every unnecessary direction change		
Total score (event score & subtract penalties)-----		

Judging this event was _____

Please print name

REFUSE TRUCK (Side-Loader)

OBJECTIVE:

This event is to test the operator's driving skills. The driver must drive forward between traffic barrels in 1 serpentine manner and stop at prescribed points along the course to empty four (4) trash containers and place them back on the targets within the target area; then proceed driving backward through the traffic barrels in a serpentine manner and return to the designated stop line making no adjustment. Time is stopped. This event will be based on total time.

PROCEDURE:

Beginning at the starting line with refuses truck engine at idle speed with the parking brake set and with seat belt securely fastened. The driver will release parking brake and signal the starter when ready by blowing the horn. The driver must pull forward at a safe speed between the traffic barrels in a serpentine manner. The driver must continue through the course and stop at each container, empty the container and place the container back on the targets within the round area. After the last container has been set back in place, the driver must proceed backward through the traffic barrels in a serpentine manner and return to the designated stop line making one adjustment. The driver will set the parking brake and blow the horn to let the starter know that they are completed. This event will be based on total time.

PENALTIES:

- Sixty (60) second penalty for not using seatbelt
- Twenty- five (25) second penalty- for each barrel touched
- Five (5) second penalty- each traffic cone is touched
- Three- (3) second penalty- if any part of the container is resting outside on the
ring
Area.
- Twenty (20) second penalty if any container is missed or not dumped.
- Fifteen (15) second penalty for driving outside the course
- One (1) second penalty for each inch from the front edge of the designated stop
line
- Three (3) second penalty for each inch past the front edge of the designated stop
line
- Participant will be disqualified for not attempting to pick up any container

EQUIPMENT RODEO SCORE SHEET REFUSE TRUCK (Side-Loader)

NAME: _____

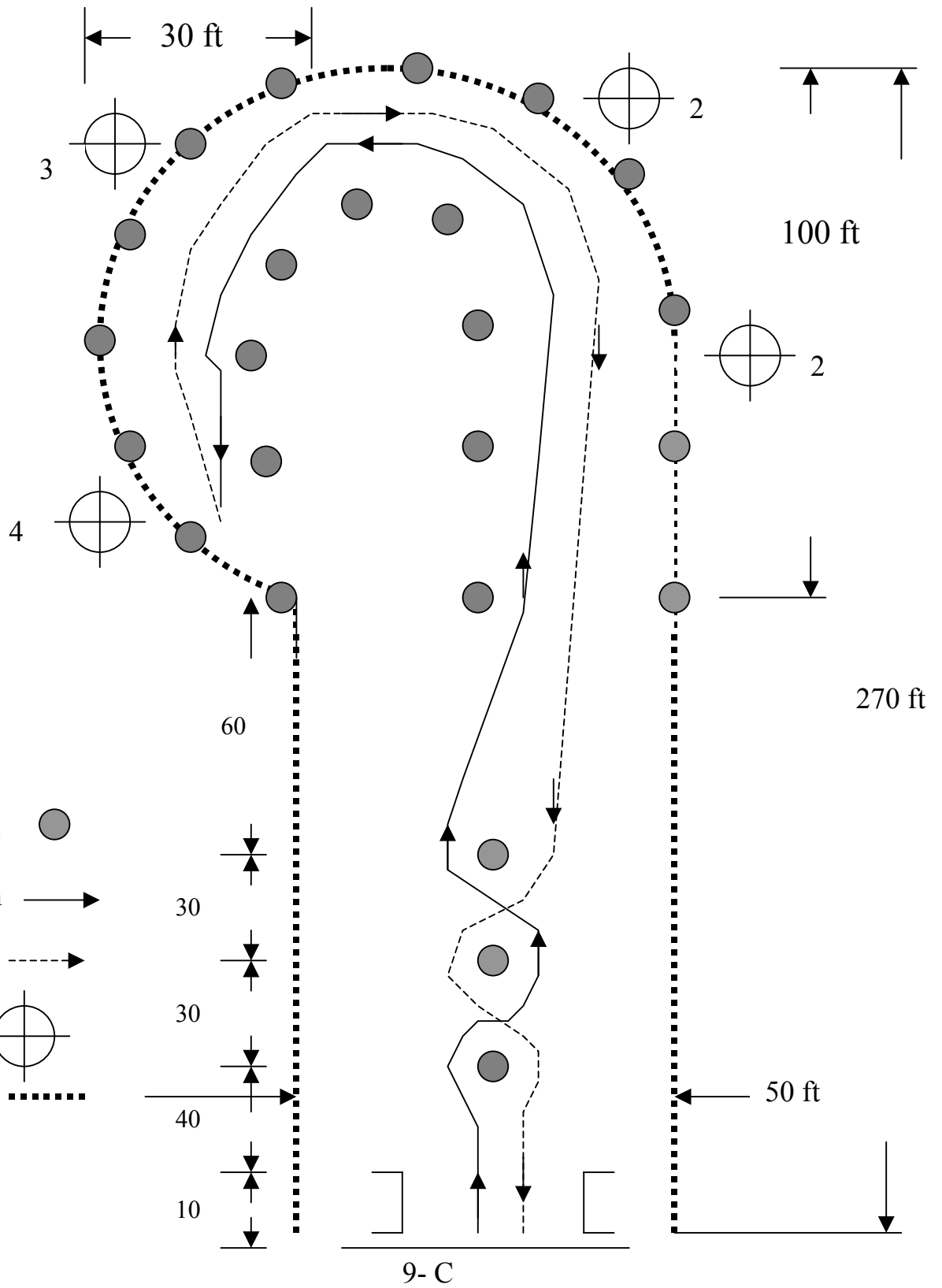
MUNICIPALITY:

Completed event time before penalties (min/ sec)-----			
PENALTIES	# OF SECONDS PER PENALTY	# OF TIMES	TOTAL TIME
Not using seat belt	60 Sec		
Contact with traffic barrel	25 Sec each barrel		
Contact with traffic cone	5 Sec each cone		
Container outside of ring area	3 Sec each time		
Missed container	20 Sec each container		
Container not dumped	20 Sec each container		
Drive outside of course	15 Sec each incident		
Finish in front of stop line	1 Sec Per Inch		
Finish behind stop line	3 Sec Per Inch		
Total Penalty Time (min/ sec)-----			
Total Time (event time + penalty time)-----			

Judging this event was

— Please print name

REFUSE TRUCK (SIDE LOADER) TYPICAL SET- UP



LEGEND

- Traffic Drum
- Forward Path →
- Reverse Path →
- Container +
- Safety Cones

9-C

KNUCKLEBOOM

OBJECTIVE:

This event is to test the operator's skills in the use of the knuckleboom by picking up a brick from a flat surface; swing it over the dump body; place the brick on the target; and return the bucket to the start position. This event will be based on total time.

PROCEDURES

The truck will be parked at idle speed with the outriggers in place. The operator will be at the controls on the operating deck. The bucket will be opened in a stored position. The brick must be picked up in the bucket blade and not scooped up in the bucket. The brick must be placed intact, on end, in an up right position on the target. If the brick is dropped anywhere on the course outside of the target area (pavement-truck), time will stop and the participant will get a restart plus the added penalty seconds from the first start. If the brick is dropped and/or broken, the brick will be reset or replaced. If the brick is dropped a second time, the participant is disqualified. The brick must be placed as close to the bull's-eye as possible. If any part of a brick is touching a ring close to the bull's-eye, that is the ring the contestant will be credited with. After the brick is in place and the bucket has been returned to a properly stored position on the tailgate, the time stops. This event will be based on total time.

PENALTIES

Ten (10) seconds penalty if brick is knocked over, or broken

Ten (10) seconds penalty if brick is dropped in target area

Twenty-five (25) second penalty if brick is dropped on course anywhere

Outside of the target area

Participant is disqualified if brick is dropped a second time

The brick must be placed as close to the bull's-eye as possible

If brick is within the bull's-eye no penalties are assessed

First ring outside bull's-eye - Three (3) second penalty

Second ring outside bull's-eye - Five (5) second penalty

Five (5) second penalty for not properly placing bucket on tailgate

EQUIPMENT RODEO SCORE SHEET

KNUCKLEBOOM

NAME: _____

MUNICIPALITY: _____

****NOTICE****

If a participant drops a brick two (2) times, the participant is disqualified.

Completed event time before penalties (min/ sec)-----			
PENALTIES	# OF SECONDS PER PENALTY	# OF TIMES	TOTAL TIME
Knock over brick	10 Sec each incident		
Break Brick	10 Sec each incident		
Drop brick in target area	10 Sec		
Drop brick anywhere outside target area	25 Sec		
Brick one ring outside bull's-eye	3 Sec		
Brick two rings outside bull's-eye	5 Sec		
Improper placement of bucket on tailgate	5 Sec		
Total Penalty Time (Min/ Sec)-----			
Total Time (Event Time + Penalty Time)-----			

Judging this event was _____

Please print name

KNUCKLE BOOM TYPICAL SET- UP

