

Backhoe - Scorecard

Official scoring card - participant fields intentionally blank

Competitor Name _____

Organization _____

Each operator starts with 100 points, excluding safety items. Safety violations are automatic disqualification. Each listed infraction costs 10 points. A 20-point bonus is awarded for closest to the imaginary line at finish and 10 points for second closest. Event is timed for tie-breaking; quickest wins.

Scorer Checklist

Item	Judge Record
Start time - operator puts foot on first step	
End time - operator steps off machine	
Safety infractions (automatic disqualification)	
Number of safety cones hit or moved (-10 each)	
Basketball placed in basket without dropping? (-10 if failed)	
Backhoe skills completed correctly? (-10 for each failure)	
Measurement from bucket to imaginary line (inches)	
Additional comments	

Course / Procedure Reference

Start with proper 3-point mount, hardhat and safety belt. Back machine to place basketball from loader bucket into basket, continue between safety cones to backhoe position, lower loader bucket and stabilizers, unlock boom, empty three tennis balls into the cement box, move the cement weight from the black circle to the red circle and back, roll the pipe through the uprights without contacting uprights/top crossbar or allowing bucket teeth to touch the ground, relocate the top crossbar, return backhoe to lock position, raise stabilizers and loader bucket, return to start position near the imaginary line, set park brake, shut off engine, remove hardhat, unbuckle and dismount with 3-point contact.

Crack Seal - Team Scorecard

Official scoring card - participant fields intentionally blank

Team / Organization

Team Members

Proper Dress Apparel - all team members must have required items to participate

Required Item	Check
Gloves	
Safety Glasses	
Hard Sole Shoes / Work Boots	
Long Sleeve Shirt - No Polyester	
Safety Vest / Approved Agency Colored Shirt	

Section A Points (5 possible): _____

Melter Walk Around and Inspection

Check Item	Judge
Engine oil, water, fuel level	
Hydraulic fluid	
Heat transfer oil level	
Turn signal, brake and running lights	
Hitch and safety chains	
Warning lights and fire extinguisher (if equipped)	
General condition: tires, wheels, lugs, trailer frame, hoses, wiring	

Section B Points (7 possible): _____

Vacuum Walk Around and Inspection

Check Item	Judge
Engine oil	
Hydraulic fluid	
Rotary air blower fluid level	
Storage tank for debris / access door closed	
Filter for debris / access door closed	
Hoses for wear / proper wand and boom connection	
Pivotal boom assembly swivels properly	
Gasoline tank level full before start	

Section C Points (8 possible): _____

Melter Start-Up

Step	Judge
Preheat and start engine	
Turn main power toggle switch at control box on	
Set hot oil temperature at 500 degrees	
Set material temperature to manufacturer recommended temperature	
Mixer switch in Forward; mixer activates at proper sealant temperature	
Set heated hose temperature at 380 degrees	
When applying sealant: set trigger lock, remove wand/hose from hanger and position on hose jib support (2 persons required)	

Section D Points (7 possible): _____

Vacuum Start-Up

Step	Judge
Start engine and set RPM at low idle	
Check unusual noise/vibration from rotary air blower	
Set RPM to full throttle	

Section E Points (3 possible): _____

Dispensing Material and Vacuum Operation

Step	Judge
Properly heat application tip	
Set pump speed	
Place vacuum head over cracks	
Open air injector valve and proceed with air routing and vacuuming	
Open/close air injector valve as needed to keep dust from blowing from under vacuum head	
Start crack sealing	
Proper application of blotter material in designated area	
Graded Item	Score 1-10
Proper cleaning of cracks	
Proper application of sealant	
Proper squeegee usage	
Neatness of overall job	
Crew coordination	

Section F Total (57 possible): _____ Time (Tie Breaker): _____

Melter Shut Down and Clean Out

Step	Judge
Reverse pump for approximately 30 seconds	
Turn main control toggle switch off	
Set hot oil, material and heated hose thermostats to 0 degrees	
Turn air compressor toggle switch off	
Set trigger lock on wand and store hose on hanger with travel safety in place	
Rotate jib support toward front until locked	
Shut engine down	

Section G Points (7 possible): _____

Vacuum Shut Down and Clean Out

Step	Judge
Turn blower engine off	
Store hose and boom for travel	
Remove filter from housing and check for large debris	
Clean filter with compressed air and wash with water	
Unlatch storage manhole cover and dump debris in approved area	
Store hose and wand	

Section H Points (6 possible): _____

TOTAL POINTS (100 possible)

TIME

Concrete Repair - Team Scorecard

Official scoring card - participant fields intentionally blank

Team / Organization

Team Members

Three persons may be on a team. Teams bring all forms and equipment necessary to complete the project in one day. Panel is 10 ft x 6 ft with existing curb along the 10-ft street side. Slab is 4 inches thick (tolerance +/- 1.4 inch) with one transverse control joint at 5 ft. MAG B concrete is furnished at 5-inch slump. Finish is light/soft broom and sidewalk slopes to street at 1/8 inch per foot of width. OSHA requirements apply.

Category	1	2	3	4	5	Judge Notes
Form Setting - wood/steel, slope, edge connections, stability						
Subgrade Preparation - compaction, slab thickness, smoothness						
Procedure / Sequencing - strike-off, floating, timing, finishing, slump						
Equipment - condition, on-hand, correct use						
Finish - smoothness, brooming, edge vibrations						
Curing - type, application, quality						
Teamwork - unified effort, individual capability, fun						
Safety - OSHA requirements, cones, gloves, glasses						

Total Points

Forklift - Scorecard

Official scoring card - participant fields intentionally blank

Competitor Name _____

Organization _____

Scoring Item	Deduction	Judge
Safety item deductions	-5 points each	
Forward hits	-2 points each	
Reverse hits	-2 points each	
Pallet area deductions - hits / alignment	-2 points each	

Starting Points 100

Total Deductions _____

Final Total _____

Time _____

Competitor Name _____ Organization _____

[illegible]

Patching - Scorecard

Official scoring card - participant fields intentionally blank

Team / Organization

Team Members

Scoring is based on a 1-to-10 scale, with 10 being best.

Scoring Item	Specification / Standard	Points
Asphalt Thickness	4 inches +/- 1/2 inch	
Smoothness	1/4 inch with a 10-foot straight edge	
Texture	Segregation / Visual	
Density	95-96% = 5 points; 97-98% = 10 points	
Tidiness	Cleanup: removal of excess asphalt	
Safety	Clothing / Construction Practices / Equipment	

Total Points

Expediency / Time

Expediency is timed from imprint on scale ticket to completion of patch and is used as the tiebreaker.

Sign Placement - Scorecard

Official scoring card - participant fields intentionally blank

Competitor Name _____ Organization _____

Time of installation is used only in a tie; best time wins.

Scoring Category	Result / Scale	Score
Time of Installation	Time only - tie breaker	
Bottom of Sign to be 7 ft Above Grade	Perfect=20; 1 in.=19; 2 in.=18; 3 in.=17; 4 in.=16; 5 in.=15	
Quality of Work	Straightness, signs OK, rivets/bolts tight. Perfect=20; Miss 1=15; Miss 2=10; Miss 3=5	
Anchor Above Ground	2 holes=20; 3 holes=15; 4 holes=10; 5 holes=5	
Safety Apparel	Hard hat, vest, glove, eye protection. Good=20; Miss 1=15; Miss 2=10; Miss 3=5; 0 gear=0	

Grand Total Points _____

Notes _____

Skid Steer - Scorecard

Official scoring card - participant fields intentionally blank

Competitor Name _____

Organization _____

Points are based on time and a scale of 30.

Scoring Item	Deduction	Judge
Hit a cone	-1 point each	
Drop PVC pipe	-5 points	
Touch PVC pipes with the PVC pipe	-1 point	
Fail to pick up the ball	-5 points each	
Fail to insert the ball in the bucket	-5 points each	
Unable to pass the pipe between the three obstacles	-5 points	

Time

Total Score

Street Light Install - Scorecard

Official scoring card - participant fields intentionally blank

Competitor Name _____

Organization _____

Score adds 5-10 seconds accordingly, as shown on the supplied Streetlight Program score sheet.

Installation / Safety Item	Judge
PPE - proper gloves, vest, eye protection, safety shoes	
Wire - pulled through on first attempt	
Alignment - fixture level forward/back and side-to-side	
Photocell / shorting cap installed	
Rain cap installed	
Hand hole cover installed	
Rubber boots installed and cut to accept conductor	
Fuse holder installed / crimped (judge pull firmly)	
Fuse installed	
Termination - no exposed wires outside of boots	
Activation - LED fires up on first try	
Grounding - secure ground wire	

Judge _____

Total Time _____

Street Sweeper - Scorecard

Official scoring card - participant fields intentionally blank

Competitor Name _____

Organization _____

Scoring Item	Points	Judge
Safety item deductions	-5 points each	
Forward hits	-2 points each	
Reverse hits	-2 points each	
Pallet area deductions - hits / alignment	-2 points each	
Basketballs	+2 points each	

Starting Points

100

Total Deductions

Final Total

Time

Streetlight Pullbox - Team Scorecard

Official scoring card - participant fields intentionally blank

Team / Organization

Team Members

Pull Box Challenge - Wire Pull / Terminations

Penalty Item	Penalty	Judge
Gel-Cap retainer clip / nipples not inserted	-5 seconds	
Gel-Cap boot not on correctly	-10 seconds	
Cross Phase	-30 seconds	
No continuity	-120 seconds	
Connection - pull on wires	-5 seconds	

Total Penalty (Seconds / Minutes)

Total Time

Adjusted Time

AZMSA ROADEO - Ten Wheel Dump Scorecard

Participant fields intentionally blank

Operator Name: _____

Organization: _____

Start Time: _____ End Time: _____

1. Serpentine (50 pts)

Hit barricade	-5	_____
Hit cones	-5	_____
Change direction	-5	_____
Stopping	-5	_____
Obstacle Total		

2. Alley Dock (Max 50 pts)

6 in. of rail	50	_____
7-12 in. of rail	40	_____
13-18 in. of rail	30	_____
19-24 in. of rail	20	_____
Over 24 in. of rail	-50	_____
Hit back rail	-25	_____
Hit barricades/side	-5	_____
Obstacle Total		

3. Controlled Left Turn (Max 50 pts)

Under 6 in. of radius cone	50	_____
Over 6 in. and under 12 in.	40	_____
Over 12 in. and under 18 in.	30	_____
Less than 24 in. of radius cone	20	_____
Radius cone touched	-50	_____
Over 24 in. of radius	-50	_____
Hit outside cones	-25	_____
Change direction	-5	_____
Stopping	-5	_____
Obstacle Total		

4. Controlled Right Turn (Max 50 pts)

Under 6 in. of radius cone	50	_____
Over 6 in. and under 12 in.	40	_____
Over 12 in. and under 18 in.	30	_____
Less than 24 in. of radius cone	20	_____
Radius cone touched	-50	_____
Over 24 in. of radius	-50	_____
Hit outside cones	-25	_____
Change direction	-5	_____
Stopping	-5	_____
Obstacle Total		

5. Precision Tracking (Max 50 pts)

Touching cones	-5	_____
Run over cones	-5	_____
Straddling cones	-50	_____
Going around cones	-50	_____
Stopping	-50	_____
Obstacle Total		

6. Parallel Parking (Max 50 pts)

Under 6 in. of stop bar	50	_____
Under 9 in. of stop bar	40	_____
Under 12 in. of stop bar	30	_____
Under 15 in. of stop bar	20	_____
Under 18 in. of stop bar	10	_____
Over 18 in. of stop bar	-50	_____
On/Over sidelines	-50	_____
Hit front/rear bar	-50	_____
Additional pull ups	-25	_____
Obstacle Total		

7. Diminished Clearance (Max 50 pts)

Hit cones	-10	_____
Change direction	-5	_____
Stopping	-5	_____
Obstacle Total		

8. Forward Stop Bar (Max 50 pts)

Under 12 in. of stop bar	50	_____
Under 18 in. of stop bar	40	_____
Under 24 in. of stop bar	30	_____
Over 24 in. of stop bar	-50	_____
Touch/over the line	-50	_____
Change direction	-5	_____
Stopping	-5	_____
Obstacle Total		

Total Time: _____

Grand Total Points: _____

Organization

[illegible]

Wheel Loader - Scorecard

Official scoring card - participant fields intentionally blank

Competitor Name _____

Organization _____

Scoring Item	Penalty / Record	Judge
Safety - seat belt and 3-point contact at all times	1 point per	
Cones knocked over	1 point per	
Forks and bucket secure	1 point each if not secure	
Time		