

Fundamentals of Pole Vault

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Outline

- Overview of Pole Vault
 - Basic Rules
 - Time Limits for initiating an attempt
 - Definitions of Foul Attempts
- Safety
 - Venue inspection and preparation
- Venue Set-Up Procedures
- Procedures for conducting a safe competition
- How to score a Pole Vault competition
 - Tie Breaking procedures
 - Jump-Off procedures
- USATF Officials Best Practices



The Pole Vault Venue





Pole Vault Basics

Crossbar Length	4.50 meters							
Number of Attempts	Unlimited until 3 misses in row							
Opening height	Athlete's cho	ice						
Height progression	Set by Games Committee							
	IAAF/USATF	NCAA	High School					
Late arrival after start of competition	Start at current height, if entered	Can't jump	Can't jump					
Bar support pins	55 mm	55 mm	76 mm (3 in)					
Height increments Open	15 cm	15 cm	6 in					
Combined Events	10 cm	10 cm	15 cm					
Standards	0 – 80 cm	45-80 cm	45-80 cm					
Passes	Pass height	Pass attempt	Pass attempt					
Warm-ups on runway after competition starts	Not allowed	2 min. after 1 hour w/o bar @ entry height	2 min. after 3 consecutive passed heights w/o bar @ entry height					



Time Limits for Initiating an Attempt

	Pole Vault Time Limits (minutes)									
	IAAF/	USATF	NC	AA	High School					
	Individual Event	Combined Event	Individual Event	Combined Event	Individual Event	Combined Event				
> 3 athletes	1	1	1	1	1	1				
2 – 3 athletes	2	2	3	3	3	3				
1 athlete	5	3	5	3	5	5				
Consecutive attempts	3	3	3	3	3	3				
Warning: Raise yellow flag	15 sec		15	sec	No rule					



It is a foul if ...

- When the crossbar is displaced in an attempt to clear it;
 - Exception: If, in the judgment of the official, the wind blew the pole into the crossbar causing it to fall.
- When a competitor touches the ground or landing area beyond the plane of the crossbar or the crossbar extended without first clearing the bar.
 - It is not a foul if the athlete's arm or pole breaks the plane without touching the ground or landing area beyond the plane.
- If a competitor fails to initiate a trial within the time limit.
- If, during or after the jump, the competitor deliberately steadies or replaces the bar.
- If the pole is touched when it is falling toward the bar or uprights such that, without the intervention, the bar would have been knocked off.
- If a competitor violates the warm-up restrictions.



It is a foul if ... (cont.)

- High School only:
 - If, after successfully clearing the bar, a competitor accidentally bumps the standards and displaces the bar while exiting the pit.
 - If the competitor uses a pole that is rated below his/her weight; the competitor will also be disqualified from the event.
 - If the competitor leaves the ground in an attempt and fails to clear the bar.
 - **EXCEPTION:** The competitor aborts the approach and in stopping plants the pole and momentum causes his/her feet to leave the ground.
- **Note:** It shall not be counted as a trial or failure if a competitor's pole breaks during an attempt to clear the bar. The vaulter shall be awarded a new trial.



A proper set-up helps produce ...

 A safe competition

• A legal competition



• A fair competition



Crossbar

Midpoint: It may not be in the middle of label

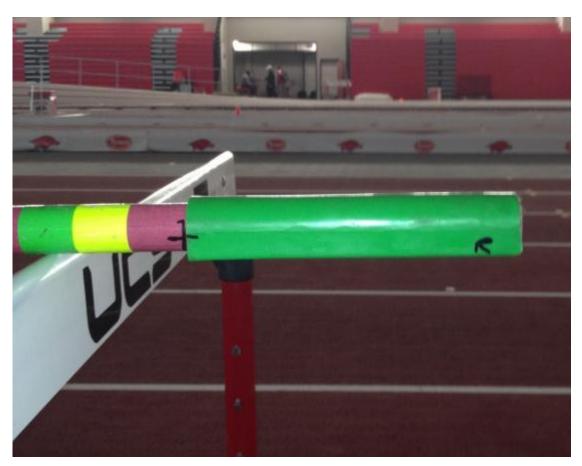




Ends

 Align and mark end pieces (NCAA 6.5.2) so that bar sag is down

Crossbar



Courtesy of Mike Armstrong Arkansas Association



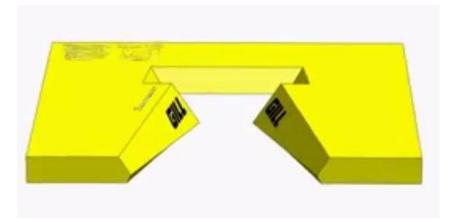
Pole Vault Venue Set Up

- Cover hard surfaces such as concrete, metal, wood or asphalt with a minimum of 2 inches of dense foam or other suitable material
- Remove movable objects such as hurdles





NCAA & high school competitions: Verify there is a box collar







Inspect the Box & Landing Area

- Check the area around the box
 - Remove debris & water from the box
 - Verify adequate clearance for poles to the pads
- Verify that the pits are properly connected and the top cover is in place
- Observe the condition of the pit
- Verify the pegs are the proper length
 - 55 mm for USATF & NCAA
 - 76 mm for High School
- Install extenders if necessary

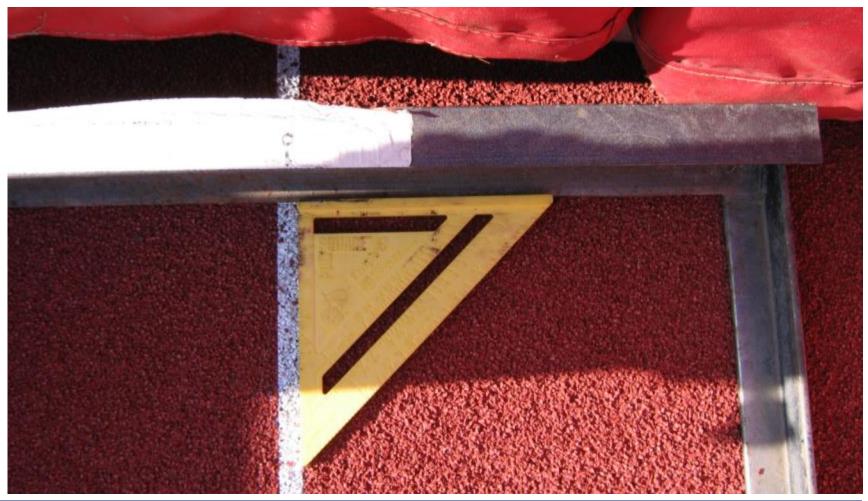


Mark 0 to 80 cm scale on bases





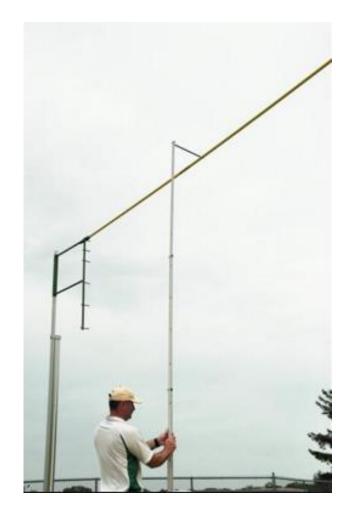
Align standards with 0 line





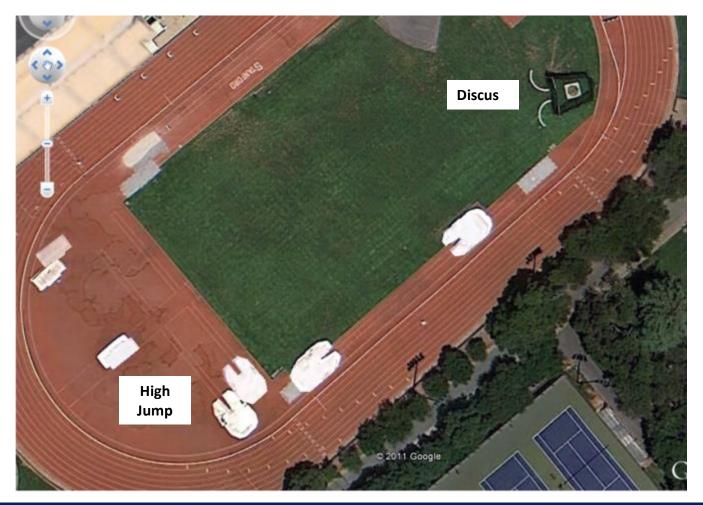
Check Accuracy of Standards

- Move standards to "0"
- Put crossbar on pegs to be used
- Center bar on pegs & check overlap of ends
- Measure height & determine offset from standards setting



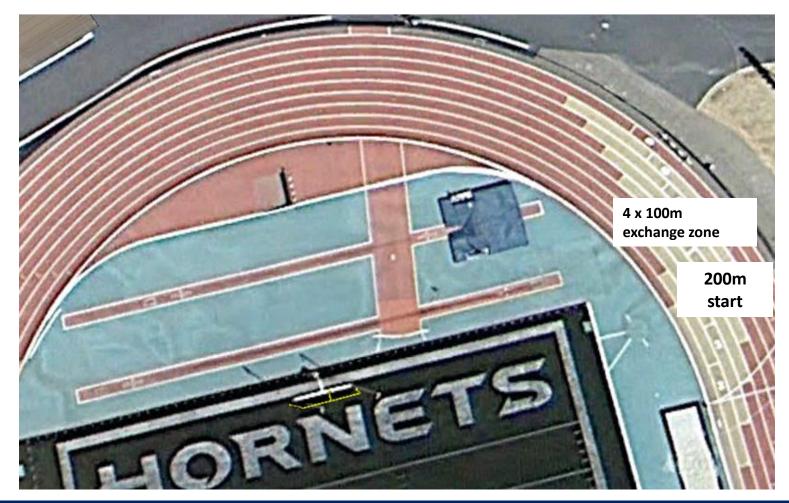


Observe the surroundings & anticipate problems you may encounter:





Anticipate Potential Problems from adjacent events





Conducting a Competition

- Read the rules the night before (from correct book)
- Arrive early (at least 1 hour before event start) to allow time for venue set-up and warm-ups
- Pick up 2 copies of entry sheets
- Make sure you have necessary equipment (crossbars, lifters, extenders, etc.) & helpers
- Make sure the venue is safe
- Have fun!



Scoring

X = Miss/Fail

O = Cleared

-= Pass

NCAA and High School: Record a "-" for each *attempt* that is passed.

• Be sure to ask athlete if they are passing, the attempt or the height.

USATF - a pass is a pass of the *height*.

Places are determined by 1) fewest attempts at a height; 2) fewest total misses throughout the competition.

• If the tie still remains for first place, the tying athletes must jump off.

		Impe																		BEST	Jumps Tied Ht	
Bib #	Name	Met	^{ric} .30			3.45	1		3.60)		3.70)		3.80)	:	3.90)	MARK	Total Misses	PLACE
1	Adams	—	—	—	х	0		—	—	—	0			х	х	х				3.70	1/1	3
2	Bradley	0			Х	0		Х	0	-	Х	Х	Х							3.60	2/2	5
3	Crane	—	—	—	—	—	—	—	—	—	х	х	0	х	0		х	х	х	3.80		1
4	Douglas	Х	Х	Х																N/H		
5	Edwards	—	—	—	—	—	—	0			х	0		х	х	Х				3.70	2/1	4
6	Graham	0			0			0			0			Х	Х	Х				3.70	1/0	2
7	Howe	Х	0		Х	Х	0	Х	0		Х	Х	Х							3.60	2/4	6 Tie
8	Irons	Х	Х	0	Х	0		Х	0		Х	Х	Х							3.60	2/4	6 Tie
9	Jackson	0			Х	0		Х	Х	0	Х	Х	Х							3.60	3/3	8



Pole Vault Jump Off Procedures

	Pole Vault								
	IAAF/USATF	NCAA	High School						
Starting Height	Next height in progression above tie	Next height in progression above tie	Lowest final failing height						
Increment	5 cm	5 cm	3 inches						

	High School Example										
Athlete		Heig	ght and	Perform	ance		Total		Jump Of	f	Diago
Athlete	10'	10'6"	11'	11'6"	12'	12'6"	Fails	12'6"	12'3"	12'6"	Place
Α	0	XO	0	XO	PPP	XXX	2	Х	0	Х	2
В	XO	0	PPP	XO	PPP	XXX	2	Х	0	0	1
С	PPP	XO	XO	XO	PPP	XXX	3				3

NCAA, USATF and IAAF Example											
Athlete		Heig	ght and	Perform	ance		Total		Place		
Atmete	4.10	4.20	4.30	4.40	4.45	4.50	Fails	4.45	4.40	4.45	Place
Α	0	XO	0	XO	Р	XXX	2	Х	0	Х	2
В	XO	0	Р	XO	Р	XXX	2	Х	0	0	1
С	Р	XO	XO	XO	Р	XXX	3				3



USATF Officials Best Practices

https://my.usatfofficials.com/resources/tag/vertical-jumps

Officiating Resources > Vertical Jumps

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BEST PRACTICES		OTHER RESOURCES
Absence from Competition - Field Events January 2015 East PRACTICE Field Events - General High Jump Horizontal Jumps Pole Vault Throws Vertical Jumps	Excel PDF	FieldLynx Quick Start Guide - Vertical Jumps (Palm OS) November 2007 Electronic Measurement Vertical Jumps
Crossbar Preparation for Vertical Jumps April 2016 BEST MUACTICE High Jump Profe Vault Prefical Jumps	PDF MP4	FieldLynx Quick Start Guide - Vertical Jumps (Windows CE/Mobile) November 2009 © Electronic Measurement © Vertical Jumps
Evaluation Form - Vertical Jumps January 2013 BEST PRACTICE S High Jump S Pole Vault S Vertical Jumps	PDF Word	Five Alive Clinic (2004 Olympic Trials) [July 2004 Power Pleid Events - General Vertical Jumps
Event Recording Sheet - Vertical Jumps (Landscape) December 2010 BEST PRACTICE Vertical Jumps	Excel PDF	Five Alive Webinar (April 2010 Web Pield Events - General N Vertical Jumps
Event Recording Sheet - Vertical Jumps (Portrait) December 2010 December 2010	Excel PDF	Vertical Jump Pocket Guide December 2007 Selectronic Measurement Selectonic Jumps
Field Event Scoring and Tie-Breaking May 2015 BEST FRACTICE Field Events - General & Hortzontal Jumps & Throws & Vertical Jumps	PDF Word	Vertical Jumps - USATF Officials Monograph Series August 2012 Field Events - General Vertical Jumps
Field Event Time Limits January 2016 SEST PRACTICE Pield Events - General Pilgh Jump Pole Vault P Throws Pole Vault P	Excel PDF	L