



USATF National Officials Committee

Implement Inspector Rules Review

2009-2012 Olympiad Edition

Instructions: Each question is a complete statement, which is a rule, or paraphrases a rule. You are to indicate whether the statement is True or False, based on the rulebook indicated for the question. Please **CIRCLE** your answers in the **LEFT MARGIN NEXT TO THE QUESTION NUMBERS** and return the completed review questions to your Association Certification Chair. Make sure to print your name in the space below.

Purpose: This is not an exam. Rather, the goal is that every certified Implement Inspector be familiar with the location, content, and differences within the various rules books of rules applied to implement inspection. This review emphasizes specific specialty areas for this type of officiating. Effective competition officials do not rely on memory in making decisions; they have the proper rulebook, and look it up or confirm the information when needed.

Books: The following books are used in this rules review. Do not complete this review unless you have all books or access to them on line.

*If your computer has **Adobe Reader** (and it is a free download) you can see all the current rule books if you go to <http://www.usatfofficials.com> under Rules except the high school book.*

Implement Inspectors Handbook, although not necessary, may be of help in answering some of the questions. The latest version is available on line at www.usatfofficials.com under the Training button and monographs/manuals. If you're not currently receiving the E&FS Newsletter, send George Kleeman a note at george_kleeman@comcast.com or 5104 Alhambra Valley Rd., Martinez, CA 94553-9773. If you are a certified Implement Inspector your name will automatically be added to the distribution list. It is also available on line at www.usatfofficials.com.

Feel free to write any exceptions, clarifications or comments on the questions in the space provided. Use the back of the page if you need. Include the question number and your comments.

Implement Inspector's Certification Review For All Levels

Circle T or F

1	T or F	An implement used to set a national or world record needs to be re-measured. (USATF, NCAA, IAAF)
2	T or F	The maximum weight of the weight implement equals the minimum weight plus 2 kg. (USATF)
3	T or F	Each side of the discus must be identical. (USATF)
4	T or F	There are three javelin sizes, 400 g, 600 g and 800 g used by Youth Athletes (USATF)
5	T or F	All shots have the same diameter and only differ in weight (USATF)
6	T or F	The minimum weight of the shot for girls 8-11 in Special Olympics is 1.81kg (4 lbs). (USATF)
7	T or F	All implements, which fail one or more measurements, should be impounded until after the completion of the competition. (NCAA)
8	T or F	The Games Committee should provide implements for all throwing events, championship and non-championship. (USATF)
9	T or F	The javelin weight for the men's javelin is 800 grams. (USATF)

10	T or F	The maximum width of the hammer handle is 130 mm. (USATF)
11	T or F	The front of the grip is used for getting the points where the contour measurements of the javelin are made.
12	T or F	All rulebooks now use IAAF javelin specifications except for high school javelin with a rubber point. (All)
13	T or F	USATF Master Championship events will use WAVA implement weights. (USATF)
14	T or F	The minimum thickness of the edge of all discs is 13 mm at a point 6-mm in from the edge. (All)
15	T or F	The length of all hammers, regardless of the weight, is between 117.5 cm and 122.0 cm (NCAA).
16	T or F	An implement should be measured before all competitions. (All)
17	T or F	It is recommended that all equipment used for weights and measures should be certified for accuracy before the start of each season. (NCAA)
18	T or F	Plastic or rubber cased shots may be used indoor with metal shots in the same event. (USATF)
19	T or F	The NCAA men's shot has the same maximum dimension for indoor and outdoor competitions. (NCAA)
20	T or F	Women's indoor shot can be up to 130mm in diameter if plastic or rubber cased. (USATF)
21	T or F	You cannot use a hammer handle on a 35-lb. weight. (NCAA)
22	T or F	The maximum distance from the balance point to the tip of the men's open javelin is 1000 mm. (All)
23	T or F	In outdoor competition the shot can be made of any material, solid or filled, but must have a smooth surface. (USATF)
24	T or F	In an indoor USATF championship you can use both the indoor and outdoor implements in the same competition.
25	T or F	The only measurement of interest for the 6 kg hammer handle is length from the inside of the grip to the inside of the connection point is 110 mm. (USATF)
26	T or F	A hammer which conforms to the center of gravity rule must balance the head on a horizontal sharp edge orifice which is 12 mm in diameter. (USATF)
27	T or F	The official weight of the open hammer is 16 pounds. (USATF)
28	T or F	A discus must have a round metal rim. (NCAA)
29	T or F	The diameter of the hammer circle is the same as the diameter of the shot or discus ring. (NCAA)
30	T or F	The hammer wire should be at least 3 mm in diameter (NCAA) or (USATF) or (IAAF).
31	T or F	The weight of the women's shot in 'open' competition is 4 kg. (USATF)
32	T or F	The overall length of the mini-javelin must fall between 68.5 and 70.5 cm. (USATF)
33	T or F	A women's outdoor shot can be up to 110 mm in diameter. (NCAA)
34	T or F	A rubber discus may be used in Masters and high school events. (USATF and HS)
35	T or F	An implement not checked through Weights and Measures can be used during warm-ups but

		not in the event. (ALL)
36	T or F	In high school events a rubber tip javelin may be used. (HS)
37	T or F	An implement that is overweight but meets other specification can be used for warm-ups or in the competition. (USATF and NCAA)
38	T or F	The taper of the discus should be a straight line from the edge of the center plates or flat areas to the rim of the discus. (USATF)
39	T or F	A hammer which is not completely spherical because it has a dent can be used in competition if it meets the general diameter specifications in at least three places. (NCAA)
40	T or F	If your scale is good to only +/- 3 g you should pass a shot which weighs 7.257 kg.

Essay Questions for the National and Master Level Implement Inspector/Weights & Measures Certification:

List the basic steps that you would take to resolve the situations selected. It is important that you provide the necessary steps to resolve the problem, the rules you used and your decision is applicable. Use the back if needed.

Essay 1 A 64 year of male master athlete checks in a 5-kg hammer to their USATF championship meet. Discuss all measurements you would make and how you would make them.

Essay 2 When there are time constraints not all implement specifications can be checked. Therefore, if faced with this less than idea situation, the implement check-in official must be able to effectively discriminate or leave out some of these specifications and still be sure that the implements assure fair competition. The following javelin specifications are usually examined for correctness during implement check-in. **Arrange these items in their order of importance and justify your answers for each item.**

- a. Overall length,
- b. balance,
- c. tip length,
- d. grip length,
- e. maximum diameter,
- f. shaft taper,
- g. point angle,
- h. surface conditions (roughness),
- i. weight.

Essay 3 Anomalies may be observed during the implement check-in process. Discuss why an implement should be or should not be allowed in the competition for the following:

- A. A hammer exhibiting a badly curled hammer wire that barely passes the maximum overall length.
- B. A javelin with a wet grip that barely passes the minimum weight.
- C. A hammer that is severely dented and thus not spherical.
- D. A hammer exhibiting a handle that has obviously been changed in a way to allow for the overall length to be acceptable.
- E. Something can be heard rattling around inside of a javelin when you turn it end for end.
- F. Something can be heard rattling around inside of a shot.
- G. A discus is hot from being left in the hot sun and when you check the overall diameter it is 3 mm too large.

H. The swivel is elongated so that the hole is enlarged and the top of the swivel is distorted.



USATF National Officials Committee

Implement Inspector (Weights & Measures) Answer Form

2009-2012 Olympiad Edition _____ # Correct/ _____ % Correct

Name

Home Phone ☎

Please Print

Please be neat!

E-mail address

Your certification #

<i>Street</i>	<i>City</i>	<i>State</i>	<i>Zip</i>

Feel free to write any exceptions, clarifications or comments on the questions in the space provided. Use the back of the page if you need. Include the question number and your comments.

T or F	Give Applicable Rule Reference and any comments for clarifications		Points
1			1
2			1
3			1
4			1
5			1
6			1
7			1
8			1
9			1
10			1
11			1
12			1
13			1

14		1
15		1
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28		1
29		1
30		1
31		1
32		1

33		1
34		1
35		1
36		1
37		1
38		1
39		1
40		1

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Essay 1 A 64 year old male master athlete checks in a 5-kg hammer to their USATF championship meet. Discuss all measurements you would make and how you would make them.

Essay 2 When there are time constraints not all implement specifications can be checked. Therefore, if faced with this less than ideal situation, the implement check-in official must be able to effectively discriminate or leave out some of these specifications and still be sure that the implements assure fair competition. The following javelin specifications are usually examined for correctness during implement check-in. **Arrange these items in their order of importance and justify your answers for each item.**

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j.	Overall length	
k.	balance	
l.	tip length	
m.	grip length	
n.	maximum diameter	
o.	shaft taper	
p.	point angle	
q.	surface conditions (roughness)	
weight.		

Essay 3A - A hammer exhibiting a badly curled hammer wire that barely passes the maximum overall length.

Essay 3B - A javelin with a wet grip that barely passes the minimum weight.

Essay 3C - A hammer that is severely dented and thus not spherical.

Essay 3D - A hammer exhibiting a handle that has obviously been changed in a way to allow for the overall length to be acceptable.

Essay 3E - Something can be heard rattling around inside of a javelin when you turn it end for end.

Essay 3F - Something can be heard rattling around inside of a shot.

Essay 3G - A discus is hot from being left in the hot sun and when you check the overall diameter it is 3 mm too large.

Essay 3H - The swivel is elongated so that the hole is enlarged and the top of the swivel is distorted.
