

Rod Tying Contest

Purpose

To evaluate each contestant's ability to tie snap, snap and wrap, saddle, saddle and wrap, and figure eight ties on a single face wall reinforcing bar rack.

Eligibility

The apprentice competing at the District Council level must be an apprentice during the year he or she is competing to go onto the International Competition. The apprentice may come from any year apprenticeship. He or she may only compete at the International level once.

Clothing Requirement

Contestants must wear long pants, shirt with sleeves, work boots (no tennis shoes), hard hat, and safety glasses with side shields. Prescription glasses can be used only if they are equipped with ANSI approved side shields.

Equipment and Materials

The following equipment will be provided by the contest committee:

- Rack for tying:
 - 6 #5's – 3' 6" horizontals
 - 6 #5's – 6' 0" verticals
 - Vertical bars are to be placed on the back-face.
 - Vertical bars are 6" on center with first bar 6" off end of horizontal.
 - The first horizontal bar should be placed 3' off bottom of vertical and 6" on center thereafter.
 - Prior to the contest weld all places where rebar rods cross each other.
- Reels
- Leather rod tool belts
- 9" pliers
- Tie wire
- Safety glasses with side shields
- Work gloves (optional)
- Hard hats

The contestant may provide the following:

- Pliers
- Rod tool belt
- Reel
- Work gloves
- Safety glasses with side shields
- Hard hat

Contest Guidelines

These guidelines will be followed during this contest:

1. Contestants will be randomly selected to determine the order in which they will demonstrate their ability to make the required ties.
2. Contestants must wear their safety glasses, hard hat and gloves at all times when tying ties.
3. Each contestant will be required to tie 5 different ties including snap, snap and wrap, saddle, saddle and wrap, and figure eight ties.
4. Each contestant will be given 1 minute to tie as many of each type of tie as possible (e.g., 1 minute for snap ties, 1 minute for snap and wrap ties, etc., for a total of 5 minutes).
5. Only tight ties, with a correct second twist, will be counted. Slight movement of the tie is acceptable. All ties must be complete, including cutting of the wire on the last tie.
6. The competitor will not receive credit for incorrect or insufficiently tightened ties.
7. Evaluation of the completed ties will be visually judged immediately after each competitor's time is up for each specific type of tie.
8. The contestant must demonstrate correct safety practices at all times. The contest judges may stop a competitor at any time if they deem the contestant's manner to be hazardous to either themselves or others. Such stoppage will disqualify the contestant from that section of the contest. If the contestant is warned a second time, he or she will be disqualified as a contest participant.
9. While the contest is in progress, there shall be no communication between the contestants or between the contestants and anyone else except as directed by a judge or contest official.

Contest Scorecard

This contest will be scored as follows:

1. The Rod Tying contest is worth fifteen (15) points. The apprentice who makes the most correct ties will receive the full fifteen (15) points.
2. If there is a tie between the top two (2) or more contestants, each will receive the maximum of fifteen (15) points.
3. The highest number of ties made will then be divided into fifteen (15) providing a “constant number” (rounded to 2 decimal places). This constant number will then be multiplied by the number of ties made by each of the other contestants. The resulting product is each contestant’s score.
4. Here is an example of the scoring procedure:
 - Assume the highest total of correct ties is 88. This means that a contestant correctly completed a total of 88 ties across all 5 types of ties in a total of 5 minutes.
 - Now divide the 88 into 15 = 0.17. The constant number is therefore 0.17. This constant number of 0.17 will be multiplied by the number of good ties made by the remaining contestants.
 - Assume the next two highest contestants have totals of 86 and 81 ties respectively. Here are their scores and total points:

88 ties =	15 points
86 ties x 0.17 =	14.62 points
81 ties x 0.17 =	13.77 points
5. Contest judges should use the scoring sheet on the following page to record each contestant’s times and then determine the points earned by each contestant.
6. These results will be submitted to the contest officials responsible for compiling the overall competition results.

Partial drawing of wall rack for tying:



