

**Minnesota Section – AWWA
METER MADNESS COMPETITION
Rules and Regulations
REV20190529**

INTRODUCTION

- I-1 The Meter Competition ("Competition") is an individual Competition. Each qualified participant ("Competitor") is solely responsible for his/her performance.
- I-2 The Competition is a measure of an individual's skill at assembling a meter quickly, totally, and accurately. All parts will be assembled in proper manner, and the Judges shall test the reassembled meter.
- I-3 This is a test of skill for individuals. Groups of one (1) to two (2) persons may be placed together in a single round. The START will be simultaneous for all Competitors in that round, but each Competitor will be timed separately by an Official to record his/her raw time in assembling the meter.
- I-4 Each individual Competitor will be required to completely assemble a water meter commonly utilized by water utilities for residential customers. The event is timed with multiple Competitors assembling the meters simultaneously.
- I-5 Each Competitor will be furnished with a bucket, or other suitable container, containing the completely disassembled meter.
- I-6 A time period of no more than ten (10) minutes shall be allowed for each Competitor to complete his/her turn. **TWO CONSECUTIVE TURNS** shall be allowed for each Competitor with the fastest of the two times being used for their Official Time.
- I-7 Each individual Competitor shall be ready to compete and at his/her assigned station ten (10) minutes prior to their assigned time. Competitors absent from their stations at their scheduled time shall be assigned a new starting time or forfeit their turns at the decision of the Head Official.
- I-8 Prior to the predesignated start time, each Competitor will assume a "ready" posture of their choice. The Head Official will count down to "GO" to initiate the Meter contest. **EACH COMPETITOR ASSEMBLES HIS/HER WATER METER AND THEN RAISES HIS/HER HAND TO SIGNIFY HE/SHE IS FINISHED WITH THEIR TURN.** All other Competitors in that round must continue their turns to complete assembly of the meter to have a qualifying time of record.
- I-9 OFFICIAL TIME for the Competitors' turns will be the raw time to assemble the meter plus any penalty seconds the Judges deem necessary after testing the meter. The Competitor with the fastest OFFICIAL TIME registered in the contest shall be declared the CHAMPION.

GENERAL

- G-1 Meters shall be of the type complying with AWWA C700, "Cold-Water Meters - Multi-jet Type, Bronze Main Case." The size shall be 5/8" x 3/4" or 3/4" x 3/4". Meter manufacturer, model, and size MAY VARY EACH YEAR.
- G-2 Meters will be totally disassembled with the exception of the sealed magnetic drive assemblies and the registers. All meters utilized for the contest will be identical for all Competitors.
- G-3 **EXTRA METER PARTS** - The total contents of extra parts shall be exactly the same for each individual, but shall consist of a minimum of three (3) extra meter parts. These parts may consist of duplicate parts for the meter or may be parts from other meters than the one used in the contest at the option of the host utility providing the contest assistance. The intent is to require the Competitor to thoroughly know the total parts required to reassemble the meter utilized in this competition.
- G-4 No Competitor will be allowed to examine the contents of the bucket prior to the start of the contest. Each Competitor may examine a meter fully assembled if he/she chooses, but disassembly will not be allowed at any time by the Competitor except during his/her event timing. Each bucket shall always contain the total parts required for complete assembly of the meter. The bucket MAY contain extra parts.
- G-5 The Competitor shall be positioned immediately in front of the bucket of parts on the table at the instruction of the Head Official just prior to the Start of the event. All necessary tools will be pre-positioned on the table alongside or in the bucket prior to the start. No meter parts may be handled by the Competitors prior to the Start of the event, but they will be allowed to position the tools where they want. Both hands must be empty and not touching any tool or bucket just prior to the Start of the event.
- G-6 Tools for the event will be provided for each Competitor. The tools provided shall be:
1 – Hex Wrench
1 - Screwdriver

G-7 There is no such thing as meter failure! All meters were received in good working order prior to the Meter Competition. THE METER MUST REGISTER WHEN TESTED OR PENALTY WILL BE INCURRED.

- A. All meters utilized in the Meter Competition are new or nearly new and in perfect working condition prior to disassembly.
- B. Any tools, equipment, and other supplies provided for this Competition that are broken will be considered to be broken by neglect of the individual and will not be replaced during that turn.

G-8 All work shall be conducted on a suitable size table to provide each of the Competitors adequate room to move about freely to assemble their meters without crowding. It is preferred, but not required, to have some type of partition between Contestants to secure their individual work.

G-9 The area for the Meter Competition shall be large enough to accommodate all Competitors and their work areas. Equal space must be provided for each Competitor. Every effort must be made to provide equal work opportunities for all Competitors.

G-10 A clear area of no less than ten (10) feet in all directions around the tables shall be provided to allow the Judges to roam freely in judging the Competitors. This clear area will also help to provide a safety area between the spectators and the Competitors to protect from any tools or materials that may accidentally slip from someone's grasp.

JUDGING

J-1 The officiating and supervision of each event shall be the responsibility of the Head Official. There shall be one official for each of the Competitors, which could amount to up to 6. The number of Competitors for each round shall be limited to the space available for the Competitors to perform adequately or to the number of officials available for each round.

J-2 The officials shall be responsible for timing the events with the Head Official being the one to announce the START of each of the events. Each Competitor's time as recorded by the official, plus any penalties accrued, shall be used to determine the Official Time for each contestant. The Head Official shall be in charge of the Competition and after consulting with the other officials on any infraction of the rules shall make the ruling as required by the circumstances for any penalties to be assessed.

J-3 The Head Official shall see that all tools, materials, and Contestants are in the required positions prior to starting the event. He/She shall also ensure the work area is free from any obstructions or spectators.

J-4 The officials shall watch for safety violations during the actual events and shall see that all preparations for the events are accomplished in a safe manner.

SAFETY

S-1 Normal water utility safety practices will be observed at all times during the Competition exercises. Any flagrant violations will be penalized by addition of time to the Competitor's raw time. The Head Official's decision is final on this rule. (*This simply means NO throwing or careless handling of anything, tools or meter parts.*)

PENALTIES

P-1 Various penalties will be assessed by the Head Official for any infraction of the rules as described herein or for any flagrant violation of normal safety practices.

P-2 The penalties will be in the form of a predetermined number of seconds added to the total time of the contestant's event time, which will then be the OFFICIAL TIME of that event.

P-3 Penalties shall be (seconds):

- A. Safety violation: **+10 each**
- B. Meter not properly put together and a part too loose or falls off: **+15**
- C. Meter fails to register flow through meter when tested: **+30**

P-4 In the event of any disagreement with penalty decision, the **Head Official's decision is final.**

P-5 There will be NO INSTANT REPLAY allowed for reversing any decision after the Head Official has made a final determination on any infraction in these rules.

NOTE: This contest is officiated by very competent officials who are striving for fairness in their judgement of the events so that all contestants are judged equally as possible. **FAIR AND EQUAL TREATMENT FOR EACH AND EVERY CONTESTANT** is the goal of this contest. There is no intention to provide anyone with an advantage.

HAVE FUN!