



EMERGENCY MEDICAL TECHNICIAN



SkillsUSA Championships Technical Standards

PURPOSE

To evaluate each competitor's preparation for employment within healthcare and to recognize outstanding students for clinical excellence and professionalism within the field of Emergency Medical Services.

First, download and review the General Regulations at: <http://updates.skillsusa.org/>.

CLOTHING REQUIREMENT

Class D: Competition Specific — Blue Attire

- Official SkillsUSA light blue work shirt
- Navy pants
Note: BDU/tactical style pants (e.g., 511 or EMT pants) with a black belt
- Black leather work safety boot. Protective toe cap is not required. No tennis/running shoes allowed

Note: Safety glasses must have side shields or goggles. (Prescription glasses may be used only if they are equipped with side shields. If not, they must be covered with goggles.)

These regulations refer to clothing items that are pictured and described at: www.skillsusastore.org. If you have questions about clothing or other logo items, call 800-401-1560 or 703-956-3723.

Note: Competitors must wear their official competition clothing to the competition orientation meeting.

ELIGIBILITY (TEAM OF TWO)

Open to active SkillsUSA members enrolled in career and technical education programs with Emergency Medical Technician as the occupational objective. This competition requires a team of two. Each state may send one high school and one college/postsecondary team.

Student competitors must be enrolled in, or just have completed (within the current membership year), an EMT-Basic vocational program in preparation for a career in emergency services, Emergency Medical Technician, or other closely related technical, skilled, or service occupation.

EQUIPMENT AND MATERIALS

1. Supplied by the Technical Committee:
 - a. Tables and chairs
 - b. All written material and blank scratch paper
 - c. Materials for Clinical and/or laboratory stations for selected procedures
 - d. Holding rooms or areas for competitors
 - e. Clinical scenarios
 - f. Supplies for judges to include pens, pencils, scoring matrices, calculators, stopwatch
 - g. Two blankets and a pillow
 - h. Event evaluations
 - i. Pens and pencils
 - j. Oxygen cylinders
 - k. Suction devices with assorted catheters
 - l. Long spine backboards with 3 straps and/or “Spider straps”
 - m. Complete set of C-collars or adjustable C-collars
 - n. Complete set of padded board splints
 - o. CPR manikins and AED
 - p. Cell phone or two-way radio for calling for EMS assistance
 - q. Thermometer
2. Supplied by the competitor:
 - a. A copy of an American Heart Association BLS (CPR) card
 - b. Pencils and pen
 - c. Wristwatch capable of timing in seconds
 - d. One complete medical kit, per team, containing:
 - 1.) Personal Protective Equipment to include 1 box of disposable medical exam gloves, 2 pairs of safety glasses, 4 surgical masks, and 2 pocket face masks with one-way valves.
 - 2.) 50 non-sterile 4X4 bandages
 - 3.) 10 sterile 4x4 bandages
 - 4.) 2 rolls self-adhering roller bandages
 - 5.) 4 rolls - 4” and 6” Kling
 - 6.) 4 rolls - 4” and 6” Ace wraps
 - 7.) 4 Triangular bandages
 - 8.) 4 rolls - Medical tape (with 2 being 2” wide)
 - 9.) 2 Occlusive dressings
 - 10.) 2 Vaseline gauzes

- 11.) 4 Abdominal dressings
 - 12.) 2 Trauma dressings
 - 13.) 2 Burn sheets
 - 14.) Trauma shears or medical scissors
 - 15.) Pen light
 - 16.) Stethoscope (one per team)
 - 17.) Blood pressure cuffs — large and standard adult size (one per team)
 - 18.) Oral and nasal airways — Complete set of each
 - 19.) Adult, child and infant bag valve masks
 - 20.) EMS or tactical emergency tourniquet
 - 21.) Complete set of oxygen delivery devices: nasal cannula, simple face mask, non-rebreather mask.
 - 22.) Glucometer with strips, alcohol preps and Band-Aids
 - 23.) Pulse oximeter
 - 24.) Small sharps box
- e. All competitors must create a one-page resume. See “Resume Requirement” below for guidelines.

RESUME REQUIREMENT

Competitors must create a one-page resume to submit online. SkillsUSA national competitors should submit their resume by June 1. The link for resume submission will be published on <http://updates.skillsusa.org> on May 1. Failure to submit a resume will result in a 10-point penalty.

Your resume must be saved as a PDF file type using file name format of “Last Name_First Name.” For example, “Amanda Smith” would save her resume as **Smith_Amanda**. If you need assistance with saving your file as a PDF, visit [the Adobe website](#) for more information.

Note: Check the Competition Guidelines and/or the updates page on the SkillsUSA website at <http://updates.skillsusa.org>.

EMERGENCY MEDICAL TECHNICIAN NATIONAL LEVEL COMPETITION FACILITATOR

MU Healthcare Prehospital Services

MU Healthcare is an academic medical center that is a level 1 Trauma, Stroke, and STEMI Center. The Prehospital Service Line includes Staff 4 Life Air Ambulance Service, ground ambulance services, and a Children’s Hospital Specialty Care Transport team.

PROHIBITED DEVICES

Cell phones or other electronic devices not approved by a competition’s national technical committee are **NOT** allowed in the competition area. Please follow the guidelines in each technical standard for approved exceptions. Technical committee members may also approve exceptions onsite during the SkillsUSA Championships if deemed appropriate.

Penalties for Prohibited Devices

If a competitor's electronic device makes noise or if the competitor is seen using it at any time during the competition, an official report will be documented for review by the SkillsUSA Championships director. If confirmed that the competitor used the device in a manner which compromised the integrity of the competition, the competitor's scores may be canceled.

SCOPE OF THE COMPETITION

The competition will evaluate the competitors' ability to perform as an Emergency Medical Technician with the National Registry Patient Assessment Technical Scope of Practice Standards (TSOPS) as defined by National Highway Traffic Safety Administration (NHTSA, 2007, p.24), the most current American Heart Association CPR/ECC guidelines, and the AAOS Emergency Care and Transportation of the Sick and Injured 11th Ed. The event will consist of three rounds of competition for a two-person team.

KNOWLEDGE PERFORMANCE

Round One of the competition will include a written knowledge exam consisting of multiple-choice questions to assess general knowledge and medical technology. Competitors are required to take the SkillsUSA professional development test.

SKILLS PERFORMANCE

Round Two will include TSOPS demonstrations at four various skill stations. The top four teams from Round Two will move on to compete in Round Three. Round Three will consist of two clinical scenarios, one medical and one trauma. The scenario will require the use of critical thinking skills, communication, and demonstration of professionalism.

COMPETITION GUIDELINES

1. Competitors in this event must be active members of SkillsUSA in good standing in the division in which they are registered to compete in (high school or college/postsecondary).
2. Round One is a written knowledge test completed by all competitors. Team member scores are combined and averaged to create a composite team score. Accommodations are allowed with appropriate documentation. Please notify a member of the committee.
3. Round Two will consist of a two-person team tasked with completing four skills stations.
4. Round Three will consist of a two-person team tasked with completing both the Medical and Trauma scenarios.
5. While performing procedures, competitors may ask questions of the judges related to victim physiology.
6. Competitors will be given 2 minutes to prepare equipment and to confirm knowledge of operation if unfamiliar. Judges will only provide information as to the safe operation of the device. No demonstration of the equipment's use will be provided by the judge.
7. At the discretion of the judge, time may be extended and noted for review by the technical committee.
8. In the event of a tie, a third clinical scenario consisting of either a medical or trauma emergency will be utilized.

STANDARDS AND COMPETENCIES

EMT 1.0 — Introduction to EMS Systems

EMT 2.0 — The Well Being of the EMT

EMT 3.0 — Medical/Legal and Ethical Issues

EMT 4.0 — The Human Body

EMT 5.0 — Vital Signs and Sample History

EMT 6.0 — Lifting and Moving Patients

EMT 7.0 — Airway Management

EMT 8.0 — Patient Assessment

EMT 9.0 — Scene Size-up

EMT 10.0 — The Initial Assessment

EMT 11.0 — Focused History and Physical Exam

EMT 12.0 — Medical Patients

EMT 13.0 — Trauma Patients

EMT 14.0 — Detailed Physical Exam

EMT 15.0 — Ongoing Assessment

EMT 16.0 — Communications

EMT 17.0 — Documentation

EMT 18.0 — General Pharmacology

EMT 19.0 — Respiratory Emergencies

COMMITTEE IDENTIFIED ACADEMIC SKILLS

Math Skills

- Use of fractions to solve practical problems
- Use proportions and ratios to solve
- Practical problems
- Measure angles
- Find surface area and perimeter of two-dimensional objectives.

Source: NCTM Principles and Standards for School Mathematics. For more information, visit: <http://www.nctm.org>.

Science Skills

- Plan and conduct a scientific investigation
- Describe basic needs of organisms
- Describe and identify physical changes to matter
- Use knowledge of heat, light and sound energy.
- Use knowledge of temperature scales, heat, and heat transfer
- Use knowledge of simple machines, compound machines, powered vehicles and restraining devices

Source: McREL compendium of national science standards. To view and search the compendium, visit: www2.mcrel.org/compendium/browse.asp.

Language Arts Skills

- Provide information in conversation and in group discussion
- Demonstrate use of such verbal communication skills as word choice, pitch, feeling, tone and voice
- Demonstrate use of such nonverbal communication skills as eye contact, posture, and gestures using interviewing techniques to gain and share information.

Source: IRA/NCTE Standards for the English Language Arts. To view the standards, visit: www.ncte.org/standards.

References

- American Association of Orthopedic Surgeons (2015). Emergency Care and Transportation of the Sick and Injured. 11th Ed. Burlington, MA: Jones and Bartlett. McREL International (2017). Compendium of National Science Standards. Retrieved from: www2.mcrel.org/compendium/SubjectTopics.asp?SubjectID=2
- National Council of Teachers of English (2011).
- NCTE/IRA Standards of the English Language Arts. Retrieved from: www.ncte.org/standards/ncte-ira
- National Council of Teachers of Mathematics (2016). NCTEM Principles and Standards for School Mathematics. Retrieved from: www.nctm.org/Standards-and-Positions/Principles-and-Standards/
- National Highway Traffic Safety Administration (2007). National EMS scope of practice model. Retrieved from: www.ems.gov/pdf/education/EMS-Education-for-the-Future-A-Systems_Approach/National_EMS_Scope_Practice_Model.pdf

SAMPLE SCORING RUBRIC

ROUND 1	
Written	Team total 200
ROUND 2	
Skills Station 1	100
Skills Station 2	100
Skills Station 3	100
Skills Station 4	100
ROUND 3	
Trauma Scenario	200
Medical Scenario	200
TOTAL 1000	

COMMON LANGUAGE

“That’s outside your scope of practice, please continue”

If a competitor provides a treatment or skill that is outside the national EMT scope of practice the Judge will make this statement. This is not a penalty if the student corrects action to current standards. Example: Student goes to do a glucose check. No penalty, but students must still treat and assess the patient.

“Safety Stop”

If a competitor or judge sees something that is considered unsafe, then this will be called. Depending on the situation, competitors may be deducted points. Example: simulator is about to be dropped during movement to ambulance.

“Tech Stop”

The committee recognizes that not all equipment operates the same. We will make every attempt to provide hands-on training prior to the competition. If a competitor believes that the equipment is failing, then the competitor may request this stop. If it is a valid stop, and the competitor can articulate the issue with the equipment, no penalty will occur. If the judge advises, “Please Continue” this means the stop was not valid and normal operation of the equipment with standard knowledge should be able to be operated.