

# Emergency Medical Technician (Team of 2)

## Demonstration Competition

**PURPOSE:** To evaluate each contestant'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:** SkillsUSA Class D: Contest Specific - EMT; Blue Attire For Both Men and Women: Official SkillsUSA light blue pants OR navy blue EMS/BDU-style pants. Black leather work shoes or safety shoes (optional protective toe cap). Safety glasses with 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). School identification or name pins must be removed or covered during competition.

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

Note: Contestants must wear their official contest clothing to the contest orientation meeting.

**ELIGIBILITY:** 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.

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. IsClinical and/or laboratory station 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. Oxygen delivery devices
  - l. Suction devices with assorted catheters
  - m. Long spine backboards with speed clips and "Spider straps"
  - n. Complete set of C-collars
  - o. Complete set of padded board splints
  - p. CPR manikins and AED
  - q. Cell phone or two-way radio for calling for EMS assistance
  - r. Thermometer
  - s. Pulse oximeter
2. Supplied by the contestant:
  - a. Pencils and pen
  - b. One page typed resume
  - c. Wristwatch capable of timing in seconds
  - d. One medical kit, per team, containing:
    - i. Personal Protective Equipment to include 1 box of disposable medical exam gloves, 2 pair of eye protection, 4 surgical masks, and pocket mask or other appropriate barrier device
    - ii. 25 - 4X4 bandages
    - iii. 3 rolls - Self-adhering roller bandages
    - iv. 2 - Triangular bandages
    - v. Medical tape

- vi. 2 - Occlusive dressing
  - vii. 4 - Abdominal dressings
  - viii. 1 - Trauma dressings
  - ix. Trauma shears or medical scissors
  - x. Pen light
  - xi. Stethoscope (one per team)
  - xii. Blood pressure cuff (one per team)
  - xiii. Oral and nasal airways - Complete set of each
  - xiv. Adult bag valve mask
  - xv. EMS or tactical emergency tourniquet
- e. NOTE: any other items brought by the contestant will be subject to the approval of the Technical Committee and must be declared at the time of the on-site kit check

## **Emergency Medical Technician Contest Technical Committee**

Jonathan Schaeffer, State of California  
 Sarah Speerly, State of Illinois  
 Chris Phelps, State of Missouri  
 Christy McCloud, Contest Facilitator

## **Emergency Medical Technician National Level Contest 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, a ground ambulance services, and a Children's Hospital Specialty Care Transport team.

## **SCOPE OF THE CONTEST**

The contest will evaluate the contestants' 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 contest will include a written knowledge exam consisting of multiple choice questions to assess general knowledge and medical technology. The written exam will include no more than 10% SkillsUSA PD related questions.

## **SKILLS PERFORMANCE**

Round Two will include TSPOS demonstrations at four various skills 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.

## **CONTEST GUIDELINES**

1. Competitors in this event must be active members of SkillsUSA in good standing in the category in which they are registered to compete in (Secondary/Post Secondary). Competitors should compete in skills events at the highest level of their training.
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 skills stations.
4. Round Three will consist of a two-person team tasked with completing both the Medical and/or Trauma scenarios.
5. While performing procedures, competitors may ask questions of the judges related to victim physiology.

6. Contestants 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 technical committee.
8. In the event of a tie, a third clinical scenario comprised of either a medical or trauma emergency will be utilized.

- v. Find surface area and perimeter of two dimensional objectives.

## 2. Science Skills

- a. MCREL Compendium of National Science Standards
  - i. Plan and conduct a scientific investigation
  - ii. Describe basic needs of organisms
  - iii. Describe and identify physical changes to matter
  - iv. Use knowledge of heat, light and sound energy.
  - v. Use knowledge of temperature scales, heat, and heat transfer
  - vi. Use knowledge of simple machines, compound machines, powered vehicles and restraining devices

## 3. Language Arts Skills

- a. Standards for the English Language Arts (NCTE, 2011)
  - i. Provide information in conversation and in group discussion
  - ii. Demonstrate use of such verbal communication skills as word choice, pitch, feeling, tone and voice
  - iii. Demonstrate use of such non verbal communication skills as eye contact, posture, and gestures using interviewing techniques to gain and share information.

## STANDARDS AND COMPETENCIES:

1. Introduction to EMS Systems
2. The Well Being of the EMT
3. Medical/Legal and Ethical Issues
4. The Human Body
5. Vital Signs and Sample History
6. Lifting and Moving Patients
7. Airway Management
8. Patient Assessment
9. Scene Size-up
10. The Initial Assessment
11. Focused History and Physical Exam
12. Medical Patients
13. Trauma Patients
14. Detailed Physical Exam
15. Ongoing Assessment
16. Communications
17. Documentation
18. General Pharmacology
19. Respiratory Emergencies

## COMMITTEE IDENTIFIED ACADEMIC SKILLS

1. Math Skills
  - a. Principles and Standards for School Mathematics
    - i. Use of fractions to solve practical problems
    - ii. Use proportions and ratios to solve
    - iii. Practical problems
    - iv. Measure angles

## 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:

<http://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: from:  
<http://www.ncte.org/standards/ncte-ira>  
 National Council of Teachers of Mathematics (2016).  
 NCTEM Principles and Standards for School  
 Mathematics. Retrieved from:  
<http://www.nctm.org/Standards-and-Positions/Principles-and-Standards/>  
 National Highway Traffic Safety Administration  
 (2007). National EMS scope of practice model.  
 Retrieved from:  
[https://www.ems.gov/pdf/education/EMS-Education-for-the-Future-A-Systems-Approach/National\\_EMS\\_Scope\\_Practice\\_Model.pdf](https://www.ems.gov/pdf/education/EMS-Education-for-the-Future-A-Systems-Approach/National_EMS_Scope_Practice_Model.pdf)

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**Common Language:**

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

If a contestant 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 student must still treat and assess the patient.

**“Safety Stop”**

If contestant or judge finds something that is considered unsafe then this will be called. Depending on situation contestants may be deducted points.  
 Example: Simulator is about to be dropped during movement to ambulance.

**“Tech Stop”**

The committee recognizes that not all equipment operate the same. We will make every attempt to provide hands on training prior to the contest. If a contestant believes that the equipment is failing then the contestant may request this stop. If it is a valid stop and the contestant can articulate the issue with the equipment then 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.

**SAMPLE SCORING RUBRIC**

<b>Round 1</b>	
<b>Written</b>	<b>Team total 200</b>
<b>Round 2</b>	
<b>Skills Station 1</b>	<b>100</b>
<b>Skills Station 2</b>	<b>100</b>
<b>Skills Station 3</b>	<b>100</b>
<b>Skills Station 4</b>	<b>100</b>
<b>Round 3</b>	
<b>Trauma Scenario</b>	<b>200</b>
<b>Medical Scenario</b>	<b>200</b>
<b>TOTAL</b>	