

First Aid Competition Rules

Second Biennial Collegiate MERD

General Procedures

- ✚ The first aid competition will consist of a written examination and a set of three hands-on problems.
- ✚ One first aid team is permitted to compete per team.
- ✚ First aid teams must furnish their own basic medical supplies as would be expected of a mine rescue team. Any additional supplies needed for that specific problem will be provided.
- ✚ Team members must wear appropriate equipment for responding to a medical emergency at a mine site, specifically:
 - Appropriate protective headwear
 - Identification tag
 - ANSI-Approved protective-toe boots
 - Permissible cap lamp
 - Self-Rescuer
 - ANSI Approved safety eyewear
 - Further body-substance isolation as appropriate
- ✚ The most current National First Responder / Emergency Medical Responder Scope of Practice, as defined by the US NHTSA, are the definitive standard for patient care and treatment. The Brady *First Responder* course book will act as the reference to these standards.
- ✚ No team member may perform or administer a treatment exceeding the scope of practice as specified by their training. Team members with training greater than First Responder must inform the judges at the station and wear some type of identification indicating their level of training.

Setup

- ✚ Each station will have a minimum of one judge, who holds at least a First Responder level training (and is considered competent in making decisions regarding the appropriateness of treatments administered)
- ✚ Teams will receive a radio call requesting a response to a specific emergency. Teams will proceed to the scene without undue delay and begin treatment of the patient.
- ✚ Upon completion of treatment, the team leader will announce the simulated transportation of the patient, and will be required to deliver a radio report on the patient's condition and status.
- ✚ There will be three first aid stations:
 - Trauma

- Medical
- CPR

Trauma

The trauma call will have the following set-up:

- ✚ One live patient
- ✚ Scene that should be assessed as safe on arrival
- ✚ Clear mechanism of injury
 - Consistent with a mining environment
- ✚ Minimal to no challenges to patient access, assessment or extrication
- ✚ Treatment will only be required within the FR/EMR scope of practice

Medical

The medical call will have the following setup

- ✚ One live patient
 - Patient will be alert
- ✚ Patient's chief complaint / nature of illness will be constrained to the following:
 - Hypo/hyperthermia
 - Acute cardiac syndrome
 - Myocardial infarction
 - Angina pectoris
 - Stroke
 - Hypoglycemia
 - Syncope
 - Altitude-related conditions
 - Chemical exposure / poisoning
- ✚ Minimal to no challenges to patient access, assessment or extrication
- ✚ Treatment will only be required within the FR/EMR scope of practice

CPR

The CPR station will consist of two individual portions, one CPR mannequin each:

- ✚ Cardiac arrest, requiring full, two-rescuer CPR and the use of an AED
- ✚ Respiratory arrest, requiring only rescue breathing

Judging and Scoring

- ✚ Judging is based on the following criteria (in order of superiority)
 - National Registry Score Sheet
 - Time

- ✚ The score sheet used to judge the quality of care provided is the National Registry of Emergency Medical Technicians - Emergency Medical Responder judging sheets, with one specific for each event. A higher score is a better score.
- ✚ Any critical-fail action results in the team gaining a chance to retry the station once with an automatic loss of rank, e.g., if a team is ranked 3rd based on their performance at all the other stations and they retake, they would be ranked 4th. If the team fails to retry the station, a score of zero will be assessed to the team for that station. A second critical fail results in the disqualification of the team from the first-aid contest.
 - Judges must thoroughly and factually document the specifics of a critical-fail incident.
- ✚ Timing is as follows:
 - Clock starts when the team arrives on scene
 - Clock stops when team announces start of patient transport
- ✚ Overall scoring of the event:
 - Net score from all score sheets combined, then combined with written test scores
 - Ranked from highest score to lowest score
 - If a tie after these scores summed, then team with faster time breaks tie.
 - If a tie remains, team with higher score and fastest time on the trauma station.