



MSHA
Recognized Regional Rules
for Surface Metal and Nonmetal
Mine Rescue Contest Rules 2025

*U.S. Department of Labor
Mine Safety and Health Administration*



STEVENS AMENDMENT

Disclosure of Federal Participation (Stevens Amendment)

The Florida MSHA State Grants Program informs the public that the use of Federal dollars in the Florida Mine Safety Program meets the Stevens Amendment requirement. Bid Solicitations, press releases, various instructional material purchases, training resources, video productions, websites, social media, mine rescue events, staff professional development opportunities, and all engagements have been funded in whole or in part with Federal Entitlement Dollars.

This Florida Mine Safety Program Bid Solicitation is fully supported by the Mine Safety and Health Administration, MSHA State Grants Program, of the U.S. Department of Labor as part of an award totaling \$208,973.00 with 25% (\$52,243.00) from non-governmental sources.

"This material was produced under Grant Number 25R55MS000113-01-00 from the Mine Safety and Health Administration, MSHA State Grants Program, U.S. Department of Labor. It does not necessarily reflect the views or policies of the U.S. Department of Labor nor does mention of trade names, commercial products, or organizations imply endorsement by the U.S. Government."

Florida Mine Safety Program | Florida MSHA State Grants
www.flminesafety.com
<https://flminesafety.com/competition/>

Attention:
Karen M. Miller, CMSP, Mining Program Manager

Tallahassee Community College
Florida Public Safety Institute
75 College Drive, Suite 204, Room 259 | Havana, Florida 32333
Office: (850) 201-7689
Fax: (850) 201-7684 | karen.miller@tsc.fl.edu

Visit the
Mine Safety and Health Administration Website at
www.msha.gov

PREFACE

This booklet was prepared for mining industry instructors, MSHA instructors and inspectors to train mine rescue teams, judges, and contest personnel in procedures for a Mine Rescue Contest.

Reference to specific brands, equipment, or trade names in this document is made to facilitate understanding and does not imply endorsement.

MISSION STATEMENT

The Metal and Nonmetal National and Regional Contests serve as training tools to improve the skills required to respond to a mine emergency. These competitions serve to strengthen cooperation between mining companies, equipment manufacturers, and Federal and State agencies to enhance mine rescue preparedness. This Contest Rule Book establishes procedures and rules that serve to guide the rescue teams in actual situations.

ACKNOWLEDGMENTS

A special thanks to the Florida Surface Metal and Nonmetal Mine Emergency Rescue Task Force, (MERTF), Rules Committee for their valuable assistance in preparing this booklet. The MERTF Rules Committee is comprised of representatives from the following organizations:

Kelly Childers, *Carmeuse Longview Operations*

Brandon Clemons, *Vulcan Materials*

Darren Conn, *MSHA SE District Office*

James Hinton, *Nutrien White Springs*

Karen Miller, *FL MSHA State Grants*

Brian Millington, *Nyrstar Tennessee Mines*

Hoyt Murphy, *Argos Calera*

Crystal Pearce, *Mosaic New Wales*

Rob Seaborn, *Mosaic Four Corners*

Jon Sheppard, *U.S. Silica*

Stanley Shotts, *Argos Calera*

Brian Thompson, *MSHA SE District Office*

Robert (BJ) Wilsford, *Vulcan Materials*

David Yates, Ph.D,
Carmeuse Longview Operations

TABLE OF CONTENTS

	Page
General Rules for Conducting the Contest	1
Team Trainer Competition	
General Rules	5
Mine Rescue Field Competition	
General Rules	6
Guidelines and Procedures	
Team Members	8
Equipment	9
Written Test	9
Written Exam Discount Summary Sheet	10
Time Summary Sheet	11
Blind Knot Tying Competition	
Discounts	12
Knots to Know	12
Team Discount Summary Sheet	13
Surface Rescue Discounts	
Judges' Discount Card	14
First Aid Competition	
General Rules	19
Guidelines and Procedures	20
Written Test	22
Appeals	23
Discounts	24
Judges' Discount Card Station #1	26
Judges' Discount Card Station #2	30

GENERAL RULES FOR CONDUCTING THE CONTEST

Florida Surface Mining Emergency Response Training and Competition will be comprised of four individual events, including a Mine Rescue Field Competition (two days for each participating team), a Knot Tying Competition, First Aid Competition, and a Team Trainer Competition. Each event will include a written examination. Note: Regional Contests will include four individual events; however, the field competition may be limited to a one day event. Florida Competition will be composed of 2-Day Training and 2-Day Competition.

1. Contest officials will be comprised of the Contest Director, Contest Coordinator, Chief Judge, Appeals Committee, field competition judges (including field judges and mine attendants), isolation officials, written exam judges, technician team contest judges, and first aid contest judges. Note: During the working of the field problem(s), the No. 1 Judge will assume the role of the mine manager.
2. There will be no limitations as to the number of teams admitted from any county, state, district, company, or organization.

Mine rescue teams may register a maximum of (8) eight competing team members, including Team Trainer. Each team will be composed of a minimum of (3) and maximum of (7) with a Team Trainer which may serve as an alternate may be registered. No more than (7) people will be competing on the field. A maximum of (8) with the

(8th) an alternate/Team Trainer. The Team Trainer can be a part of the (7). The team may also register a team trainer. If the team trainer competes in any one of the competitions, he/she must be included as part of the 8-member team. Trainer Test is not factored into anything – totally separate.

Once registered, no changes will be permitted without the permission of the Contest Director, upon team arrival. Any (new or different equipment MUST be listed) needed equipment changes require submission of a modified list to the Contest Director for consideration of approval. (Note: Each judge will be given a list of your equipment prior to working of the problem to assist them in determining if the equipment was utilized properly and was functional.).

The agenda will be provided in advance to all participating teams and contest officials. At the time of the contest, the agenda will be posted in various locations as a reminder for all.

3. On the day before the contest begins, all written tests will be administered in isolation. All team members (trainer if a field competition member) will take the written test; only to the top 3 scores will be applied to the team score. Miners will be directed to sit at separate tables. Persons from the same company or organization will also be required to sit apart from each other at the designated tables.

A separate area will be designated for additional team alternates, (No. 8) who wish to take the test(s). Their test will not count toward their cumulative team scores for Field Examinations.

This also applies both to the Field and First Aid Tests.

In the event of mine rescue competition ties, field problem completion time will be the first tie breaker. The written test will be the second tie breaker. Any team member found with a wireless communication or electronic device in isolation will result in the entire team being disqualified.

The field competition, first aid, and team trainer tests will be included. A total of 60 minutes will be allowed to complete all required testing. At the end of the allotted time, tests will be collected regardless of whether or not the contestants have answered all of the required questions. (30 Questions).

4. For the Contests, the team drawing will be conducted at vendor night and knot tying competition the number selected by the team captain will determine their running order for the first day's field competition and the second day's first aid competitions. On the second day of the competition, the teams will run in reverse draw order.

In both cases, position changes necessary for management of the respective contest will be permitted if the Contest Director approves the change. (Novice Teams go FIRST)

On every day of the competitions, all teams shall be in isolation at a time designated by the Contest Director. No wireless communication or electronic

device will be permitted in isolation.

Any team member found with a wireless communication or electronic device in isolation will result in the entire team being disqualified.

(Observer in Lockup will hold phones with a label noting whose property)

5. All judges will be persons trained in mine rescue procedures;
6. ...**WARNING...** Any team whose member(s) intentionally disturb or destroy any component on a competition field will immediately be assessed a 100-point discount. Repeated offense may result in team disqualification at the discretion of the Contest Director.
7. The Florida Mine Safety Training Program and Florida Public Safety Institute will supply one person per field during the mine rescue field and first aid competitions. These persons will act under the direction of the **field coordinators** and will be used as survivors or patients, respectively.
8. A trophy will be awarded for the Overall Mine Rescue Contest Champion based on the best cumulative team scores, (the least amount of discounts), including the combined discounts for the mine rescue field and first aid. In the event of a tie, the team with the best mine rescue team standing in the mine rescue field competition will be the tie breaker.
9. The results from all elements of the contests will be distributed to the teams at the conclusion of the awards ceremony.

MATERIALS LIST

- 24 Triangular Bandages
- 6 Adhesive Compresses
- 24 Sterile Gauze, (4"x4") and/or 4" Compresses
- 6 Roller Bandages
- 3 Blankets
- 1 Scissors/EMT Utility
- 6 Pairs of Examination Gloves
- 2 Mask/face shields or masks and goggles combination meeting blood borne pathogen requirements
- 2 Heat Packs – Simulated
- 4 Cold Packs – Simulated
- 2 Oval Eye Pads
- 1 Pen and Paper Set
- 1 Barrier devices with one-way valve for performing AV/CPR
- 1 White bag (i.e. plastic garbage bag)
- 1 Compliment of splints (may be pre-padded but not assembled)
- 1 Long back board with straps (Aluminum, Wood, etc.)
- 2 Air Splints (1 full arm and 1 full leg)
- 1 Adhesive Tape
- 1 Burn Sheet, Sterile (40"x80" minimum)
- 1 Rigid Extrication Collar
- 4 Trauma Dressings (minimum of 10x30")
- 1 Eye Shield/Cup
- 1 Pen Light
- 4 Tourniquets (a device used to cut off all blood supply)
- 2 Towels
- 1 Pillow
- 4 Occlusive Dressing
- 2 Sticks, Wooden Dowels or equivalent
- 1 Watch/Timing Device
- 1 Headset (long spine board)
- 1 500 ml sterile water (for contest purposes, expiration date not applicable)

Compliment of Straps for Long Spine Board (buckle straps, spider straps, etc.)

Automated External Defibrillator Training Unit (do not power up)

TEAM TRAINER COMPETITION

GENERAL RULES

1. On the day before the contest begins, all written tests will be administered in isolation. The team trainer tests will be included at this same time. The written test will consist of thirty (30) questions, including:
 - Eleventh Edition of Brady “Emergency Medical Responder – First on the Scene,” Chapters: 3, 4, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, and 27.
 - 2020 – 2021 Florida Surface Metal and Nonmetal Mine Rescue Contest Rules
 - 30 CFR Parts 46, 47, and 56

Contestants will be assessed one (1) discount point for each incorrect or unanswered question. Scoring of the test will be completed by at least two qualified judges.

2. In special circumstances, the team trainer may be given an oral test by one or more judges in lieu of a written test. Requests for consideration shall be presented to the Contest Director at the time of registration.
3. One trophy will be awarded for the Team Trainer Competition. The team trainer with the least amount of discounts on the written test will be the winner. In the event of a tie, the team trainer with the best mine rescue team standing in the mine rescue field competition will determine the winner.

MINE RESCUE FIELD COMPETITION

GENERAL RULES

1. The Contest Director will establish a reasonable amount of time for each team to complete the problem(s). All teams will be notified of the established time prior to beginning to work the problem(s). Any teams working beyond the established time period will be notified by the #1 Judge that they must leave the field. All teams will be scored based on their discounts.
2. The Contest Director will ensure that all field problems are designed so that a team can successfully complete each problem with no discounts.
3. Discounts will not be added to the team's field score once the judges have signed their discount sheets. This does not preclude changes due to administrative errors or a misapplication of a rule.
4. ...**WARNING**...Any team whose member(s) intentionally disturb or destroy any component on a competition field will immediately be assessed a 100-point discount. Repeated offense may result in team disqualification at the discretion of the Contest Director.
5. Upon completion of the problem, a 5-minute review will be conducted regarding their working of the problem.

Note: During this process mutual respect for the judges and team members is paramount and civility must be demonstrated by all involved or the review will be stopped before the allotted time.
6. After the scorecards are checked by the scorecard examiners, they will be taken to a designated location.

At a designated time, the team captain, trainer and all team members may examine their team's scoring cards for a time not to exceed 30 minutes. A schedule will be posted near the 30-minute look location. At the conclusion of the 30-minute look, the team captain and/or trainer may submit a written appeal for any discount received to the person in charge of the review. Written appeals are not to exceed one page for any discount assessed and will be forwarded to the Mine Rescue Field Appeals Committee.

7. Documentation (contest rules and other documents used in the contest) supporting the appeal will be accepted. Any protest(s) will be considered by the Mine Rescue Field Appeals Committee. A discount summary sheet will be used to list the discounts. All discounts except time will be listed and totaled. Both the captain and the review judge will sign the team discount summary sheet to certify they have reviewed the discounts and verified the totals.
8. The Mine Rescue Field Appeals Committee shall rule in matters concerning any interpretations, procedures, or any matter involving proper conduct of the Contest. Final decisions will be made by the Chief Judge.

Any complaints filed with the committee shall be in writing and shall set forth incidents, times, names, source of information, and the act complained against. Where a written test question or rule application was found to be wrong, all teams will receive the appropriate correction.

A decision by a majority of the committee shall be binding.

9. A predetermined amount of trophies will be awarded for the Mine Rescue Competition based on the best cumulative team scores (least amount of discounts). Note: Novice Trophy– not eligible for any trophies other than the Novice Trophy. Novice only for the first competition.

In the event of mine rescue competition ties, field problem completion time will be the first tie breaker. The written test will be the second tie breaker. Any team member found with a wireless communication or electronic device in isolation will result in the entire team being disqualified.

GUIDELINES AND PROCEDURES

Team Members

Mine rescue teams may register a maximum of (8) eight competing team members, including Team Trainer. Each team will be composed of a minimum of (3) and maximum of (7) with a Team Trainer which may serve as an alternate, may be registered. No more than (7) people will be competing on the field. A maximum of (8) with the (8th) an alternate/Team Trainer. The Team Trainer can be a part of the (7). The team may also register a team trainer. If the team trainer competes in any one of the competitions, he/she must be included as part of the 8-member team. Trainer Test is not factored into anything – totally separate.

Note: No wireless communication or electronic device will be permitted in isolation or during the written testing.

Equipment

Team members must wear an approved protective hat, safety shoes, and safety glasses.

Teams are required to bring with them a sufficient supply of materials to complete the working of the field problem. Additional resources can be requested, but not guaranteed.

Written Test

On the day before the contest begins, all written tests will be administered in isolation. The mine rescue field test will be included at this same time. All team members may take the test. The three best test scores, (least amount of discounts), will be counted as the team's cumulative written test discounts.

The questions for the written test will be taken from material contained in:

- Eleventh Edition of Brady "Emergency Medical Responder – First on the Scene," Chapters: 3, 4, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, and 27.
- 30 CFR Part 56

The written test of thirty (30) questions will be Multiple-Choice with Three Options Only)

The total written test discounts, (as determined above), will be included as part of the team cumulative discounts for the Mine Rescue Field Competition.

MINE RESCUE FIELD COMPETITION
Written Examination Discount Summary Sheet

Company Name: _____

Team Name: _____

Draw Number: _____

Discounts

For each incorrect answer for each person

(1 discount)

No. 1 person $1 \times$ _____ = _____

No. 2 person $1 \times$ _____ = _____

No. 3 person $1 \times$ _____ = _____

No. 4 person $1 \times$ _____ = _____

No. 5 person $1 \times$ _____ = _____

No. 6 person $1 \times$ _____ = _____

No. 7 person $1 \times$ _____ = _____

Note:

Total Discounts is the aggregate sum of the three best test scores (tests with the least amount of discounts).

Judge's Signature _____ **Total Discounts** _____

MINE RESCUE FIELD COMPETITION
Time Summary Sheet

Company Name: _____

Team Name: _____

Draw Number: _____

Total Time _____

Timekeeper's Signature

BLIND KNOT TYING COMPETITION

Discounts

1. 0 Points for each knot tied correctly
2. 1 Point for each knot tied incorrectly
3. .5 point discount for improper dressed knot
4. (5) Knots to be determined during the Competition

Knots to Know

1. Overhand (Thumb Knot)
2. Figure Eight
3. Eight Eight on A Bight
4. Bowline
5. Figure Eight Follow-Through
6. Figure Eight Bend
7. Grapevine (Double Fisherman)
8. Water Knot (Tape Knot Overhand Bend Ring Bend)
9. Barrel Knot
10. Munter Hitch (half-ring Bend, Italian Hitch)
11. Prussik
12. Sheet Bend (Beckett)
13. Clove Hitch
14. Double Loop Figure Eight (MR Eight)
15. Butterfly

BLIND KNOT TYING COMPETITION

Team Discount Summary Sheet

Company Name: _____

Team Name: _____

Draw Number: _____

Total Discounts _____

Total Time _____

Judge's Signature

**FLORIDA MINE SAFETY PROGRAM
SURFACE RESCUE DISCOUNTS
Judges' Discount Card**

Time:

Hours: ___ Minutes: ___ Seconds: ___ Discounts: ___

Discounts

1. No work will be done prior to starting the clock 4 (Total) = ___
2. Team members doing anything to endanger himself/herself/or other team members, 15 points each team member so endangered, each infraction, each occurrence 15x ___ = ___
3. Not calling additional resources within 5 min. of reaching pt. 25x ___ = ___
4. Team members not clearing hazards 10x ___ = ___
5. Not securing the scene 50x ___ = ___
6. Failure to bring the patient to the medical personnel for transport 25x ___ = ___
7. Triage started? 10 (Total) = ___
8. Failure to locate each patient 50x ___ = ___

FLORIDA MINE SAFETY PROGRAM
METAL AND NONMETAL FIRST AID COMPETITION
Judges' Discount Card
Station #2

Patient Assessment	Control of Bleeding
Physical Shock	Soft-Tissue Injuries and Burns
Musculoskeletal Injuries	Transportation

Team _____ Team _____
Name: _____ Number: _____

Team Members: Captain _____

Date: _____ Time to Complete Problem _____

A. Patient Assessment

	Discounts
1. Not examining head (scalp, blood in hair, ears, etc.)	1x _____ = _____
2. Not assessing facial area	1x _____ = _____
3. Not assessing eyes	1x _____ = _____
4. Not inspecting nose	1x _____ = _____
5. Not inspecting mouth	1x _____ = _____
6. Not examining neck	1x _____ = _____
7. Not checking position of trachea	1x _____ = _____
8. Not inspecting jugular veins for distention	1x _____ = _____
9. Raising head if suspected spinal injury exists	6x _____ = _____
10. Not checking chest (placing hand on chest)	2x _____ = _____
11. Not gently feeling abdominal area	2x _____ = _____
12. Not checking pelvic area for injury	2x _____ = _____
13. Not checking genital area for obvious injury	2x _____ = _____
14. Not checking under patient (lower back) for injury	2x _____ = _____
15. Not checking lower extremities for injury	2x _____ = _____
16. Not checking lower extremities for paralysis	2x _____ = _____
17. Not checking upper extremities for injury	2x _____ = _____
18. Not checking upper extremities for paralysis	2x _____ = _____
19. Not inspecting back	2x _____ = _____
20. Not checking head-to-toe (according to fundamentals)	2x _____ = _____
21. Not checking medic alert bracelets/necklace	2x _____ = _____
22. Work other than taking support or controlling bleeding during secondary survey	4x _____ = _____
23. Not obtaining vital signs (BP, pulse, respirations)	4x _____ = _____

Patient Assessment

Subtotal _____

B. Control of Bleeding

1. Not controlling arterial bleeding immediately
2. Not applying direct pressure to control arterial bleeding
3. Releasing direct or pressure before bleeding is controlled
4. Elevating an extremity with fracture present
5. Not applying a tourniquet when direct pressure does not control bleeding
6. Tourniquet – Ineffective application, improperly applied or loosened during problem and document time
7. Applying tourniquets when not required
8. Not giving any treatment for internal bleeding
9. Bandages improperly applied (not entirely covered, wrong location, method, or position of knot, etc.)
10. Failure to reassess distal circulation after bandaging extremities
11. Removing or attempting to replace a dressing that is applied directly to the wound

Discounts

20 x _____ = _____
20 x _____ = _____
4 x _____ = _____
4 x _____ = _____
10 x _____ = _____
4 x _____ = _____
4 x _____ = _____
4 x _____ = _____
2 x _____ = _____
4 x _____ = _____
2 x _____ = _____

Control of Bleeding

C. Physical Shock

1. Not administering oxygen per local protocols
2. Not keeping patient in supine position
3. Not calming and reassuring the patient
4. Not maintaining a normal body temperature
5. Providing fluids or food to the patient
6. Not monitoring ABC's and vital signs

Discounts

2 x _____ = _____
1 x _____ = _____
2 x _____ = _____
1 x _____ = _____
4 x _____ = _____
4 x _____ = _____

Physical Shock

D. Soft-Tissue Injuries and Burns

1. Not applying dressing for wound or burn (each)
2. Not applying cover dressing
3. Not using sterile gauze or sterile dressing
4. Bandages improperly applied (not entirely covered), wrong location, method, or position of know, etc.)
5. Failure to place gauze between fingers, toes, or back of ear (when required)
6. Not properly treating an impaled object
7. Not removing or indicating removal of clothing from affected area
8. Not properly treating an evisceration
9. Not simulating or indicating that gauze is moist (when required)
10. Failure to properly treat sucking chest wound
11. Not treating injuries in their proper order (according to fundamentals)
12. Not properly treating eye injuries

Discounts

8 x _____ = _____
4 x _____ = _____
1 x _____ = _____
2 x _____ = _____
2 x _____ = _____
2 x _____ = _____
6 x _____ = _____
2 x _____ = _____
10 x _____ = _____
4 x _____ = _____
1 x _____ = _____

Soft-Tissue Injuries and Burns

Subtotal _____

E. Musculoskeletal Injuries

1. Not rendering any treatment for a strain or sprain (each infraction)
2. Not treating suspected spinal injury, fracture of pelvis or thigh (each) (this includes not using a properly sized cervical collar)
3. Not treating fractures other than (#4) (each)
4. Failure to properly treat suspected skull fracture
5. Failure to support fractures/dislocations until properly splinted
6. Not properly treating dislocations (each)
7. Failure to properly splint
8. Failure to properly apply padding where needed
9. Failure to check distal circulation and sensation before and after splinting
10. Improperly lifting or rolling of patient (lifting to knee when patient has dislocated or fractured hip or spinal injury)
11. Failure to apply cold applications to reduce pain and swelling
12. Improperly applied bandages
13. Improperly applied slings when required (each)

Discounts

4 x _____ = _____
12 x _____ = _____
10 x _____ = _____
2 x _____ = _____
6 x _____ = _____
8 x _____ = _____
2 x _____ = _____
1 x _____ = _____
2 x _____ = _____
2 x _____ = _____
1 x _____ = _____

Musculoskeletal Injuries**Subtotal** _____**F. Preparation for Transportation**

1. Improper "log roll"
2. Patient not placed on a spine board when required
3. Improperly secured to a spine board or stretcher

Discounts

2 x _____ = _____
2 x _____ = _____
1 x _____ = _____

Preparation for Transportation**Subtotal** _____

1. Failure to locate and treat any condition (each infraction)
2. Not completing problem in specified time
3. Any team found committing an act that will endanger the patient, each infraction
4. Any team whose member(s) intentionally disturb or destroy any component on a competition field will immediately be assessed this discount. Repeated offense may result in team disqualification at the discretion of the contest director.

10 x _____ = _____
25 (total) _____
50 x _____ = _____
100 (total) _____

Station #2**Total Discounts** _____

Judge

Judge

Scorecard Examiner

Notes

Metal/Nonmetal Mine Safety and Health
2018

FIRST AID COMPETITION

GENERAL RULES

1. The Contest Director will establish a reasonable amount of time for each team to complete the problem. All teams will be notified of the established time prior to beginning to work the problem. Any teams working beyond the established time period will be notified by the Judge that they must leave the station.
2. The First Aid team must furnish the basic first aid supplies needed to complete the problem unless specified by the contest coordinator that the supplies will be available at a specific station.
3. All injuries presented during the problem will be created using Moulage to be as realistic as possible. No tape, tattoos, or photos describing the injury will be used.

All material used to solve the first aid problem will be picked up by the team prior to moving on to their next prospective station.

4. If required by the problem, Cardiopulmonary Resuscitation (CPR) with an AED and rescue breathing will only be performed on a mannequin.
5. Any team found committing an act that will endanger the patient will receive fifty (50) discounts for each infraction.
6. Team members must wear an approved protective hat, safety shoes, and safety glasses, at a minimum.
7. ...**WARNING**...Any team whose member(s) intentionally disturb or destroy any component on a competition field will immediately be assessed a

100-point discount.

Repeated offense may result in team disqualification at the discretion of the Contest Director.

GUIDELINES AND PROCEDURES

1. The First Aid Contest will consist of a first aid problem and a written examination.
2. One first aid team will be allowed to compete for each mine rescue team entered in the Mine Rescue Contest.
3. The first aid team will consist of three members from the mine rescue team.
4. All first aid team members will remain in isolation until their team is called. Teams will receive a briefing on the problem scenario when they arrive at the first aid station.
5. There will be a minimum of three judges at the first aid station.
6. Judges will be assigned specific tasks to be scored prior to the judging and will record their findings on a specific scoring card issued prior to the contest.
7. Judges must be trained in first aid methods and knowledgeable in the scenario they will be judging.
8. There will be two first aid stations, including:
 - a. Patient assessment, control of bleeding, physical shock, wounds, burns, scalds, musculoskeletal injuries, and transportation.
 - b. Cardiopulmonary Resuscitation (CPR) with an AED and Artificial Respiration may be incorporated into the problem.
9. When the team receives the first aid scenario the clock will be started.
10. Judges must keep an accurate time and record it

on scoring sheets for tie breaker purposes.

11. Judges will not discuss any first aid problem with contestant teams unless there are technical problems.
12. Only judges, contest officials, escorted photographers, and news media approved by the contest director will be permitted in the first aid station. A separate area will be provided for spectators to observe the teams during competition.
13. On the day prior to the contest, a meeting will be held to discuss officials' and judges' assignments and training. All personnel who will be officiating during the contest shall attend this meeting.
14. The team will not be permitted to use first aid manuals for reference purposes during the working of the problem.
15. If oxygen is required in the treatment of a patient, it must be simulated with the use of a mask. No oxygen tank will be required.
16. Liquids applied for the purposes of washing eyes, moistening dressings, and rinsing contaminated skin must be simulated. All dressings and splints must be placed properly.
17. Team members are not allowed to leave the working area to obtain materials for the problem.
18. Rough treatment of patient is not allowed.
19. If a tourniquet is required in First Aid problem, do not secure tightly. No cranking down on the Tourniquet. Upon proper application of the tourniquet, bleeding will be considered controlled and acknowledged by the judge.
20. Assistance in treatment from a supposedly unconscious patient is not allowed.
21. Teams failing to complete the problem in the

specified time will be discounted.

22. A predetermined amount of trophies will be awarded for the First Aid Competition based on the best cumulative team scores (least amount of discounts). In the event of a tie, the first tie breaker will be time on First Aid Competition, and the second tie breaker will be best test scores. The winning teams will be announced during the banquet.

WRITTEN TEST

1. On the day before the contest begins, all written tests will be administered in isolation. The first aid test will be included at this same time. The written test will consist of thirty (30) multiple choice questions. The questions will be taken from the Eleventh Edition of Brady "Emergency Medical Responder – First on the Scene" (Chapters: 3, 4, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, and 27). The contestants will be assessed one (1) discount point for each incorrect or unanswered question. Any alterations to the test questions or answers will be determined to be incorrect by the test judge and discounts assessed.
2. Scoring of the test will be completed by at least two qualified judges.
3. In special circumstances, individual team members may be given an oral exam by one or more judges in lieu of a written exam.
Requests for consideration shall be presented to the Contest Director at the time of registration.
All other team members will take the test at the same time. In any case, the judges will not explain the meaning of questions, but may explain a word or words in the questions.
4. Only the (3) team members registered for the First Aid Competition will be scored on the First Aid Written Test.

APPEALS

1. Upon completion of the examination of the patient by the judges, the team will be informed of any infractions regarding treatment while at the station, during the 5-minute look. The team will be permitted to verbally appeal any infractions either with the field judge or the chief judge. If not resolved, the chief judge will make the final decision until an appeal can be filed by the team.
2. During the verbal appeal process, all questionable splints/dressings must remain intact until any verbal appeal is resolved. If any questionable splints/dressings are removed or altered by the team prior to being resolved, the appeal will not be allowed.
3. At the conclusion of the competition, the team members will be instructed to report to the area designated for 30-minute looks. A schedule will be posted near the 30-minute look location. The First Aid Team and Team Trainer will have thirty (30) minutes to review the judges' scorecards and the team's written test scores.

At the conclusion of the 30-minute look, the first aid team and/or trainer may submit a written appeal for any discount received to the person in charge of the 30-minute look.

Written appeals are not to exceed one page for any discount assessed and will be forwarded to the First Aid Appeals Committee. No additional appeals will be accepted after the 30-minute look.

4. Documentation (contest rules and other documents used in the contest) supporting the appeal will be accepted.

Any protest(s) will be considered by the First Aid Appeals Committee. A discount summary sheet will be used to list the discounts.

All discounts except time will be listed and totaled. Both the first aid team and the review judge will sign the team discount summary sheet to certify they have reviewed the discounts and verified the totals. All appeals will be considered by the committee and their decision will be binding and final.

DISCOUNTS

1. Discounts will not be added to the team score once the judges have signed their discount sheets following a review with team members. This does not preclude changes due to administrative errors or a misapplication of a rule.
2. Teams will not be discounted more than once for any one mistake in the same problem where such mistake may qualify under more than one discount. Judges will confer and assess the highest single discount.
3. Teams will be additionally discounted for repetition of the same mistakes in the same problem.
For example; improper bandaging on two separate wounds (2 times the appropriate discount), three granny knots (3 times the appropriate discount), etc.
4. Teams will not be discounted for doing more than the problem calls for, unless it is detrimental to the patient or improper care.

5. If the discount is not listed on the discount sheet and if it is not covered under one of the approved rules of the contest, judges will not improvise a discount to cover the suspected violation.

FLORIDA MINE SAFETY PROGRAM
METAL AND NONMETAL FIRST AID COMPETITION
Judges' Discount Card

Station #1

Cardiopulmonary Resuscitation (CPR) with AED
Rescue Breathing

Team

Team

Name: _____ Number: _____

Team Members: Captain _____

Date: _____

A. CPR with AED (Two Person)

(In accordance with American Safety and Health Institute and the current American Heart Association CPR Guidelines, as referenced in 10th Edition Brady's "EMR-First on Scene")

	Discounts
1. Not checking accident scene to ensure personal safety, prior to entering the scene	5 x _____ = _____
2. Not taking body substance isolation (BSI) precautions (glasses, gloves, and CPR barrier), prior to patient contact	15 x _____ = _____
3. Not determining unresponsiveness	1 x _____ = _____
4. Not checking for normal breathing for between 5 and 10 seconds	1 x _____ = _____
5. Not activating 9 1 1	2 x _____ = _____
6. Not checking for a pulse (for at least 5 seconds, but no more than 10 seconds)	2 x _____ = _____
7. Not requesting an Automated External Defibrillator (if available)	1 x _____ = _____
8. Not exposing patient's chest	1 x _____ = _____
9. Improper hand placement (heel of hand on the center of patient's chest between the nipples)	1 x _____ = _____
10. Not providing 30 compressions initially	1 x _____ = _____
11. Not delivering chest compressions hard and fast at a rate of 100 per minute (18 seconds or less/30 compressions)	1 x _____ = _____
12. Not releasing pressure completely to allow the heart to refill (in at least 23 of 30 compressions)	1 x _____ = _____
13. Not opening the airway after the initial 30 compressions	1 x _____ = _____
14. Using the head tilt/chin lift maneuver when a spinal injury is suspected	1 x _____ = _____
15. Not giving two breaths between compressions	1 x _____ = _____
16. Not providing two slow breaths (to allow chest to fall between breaths)	1 x _____ = _____
17. Not watching the chest rise and fall with each breath	1 x _____ = _____
18. Interrupting CPR for more than 10 seconds (each)	1 x _____ = _____
19. Not performing CPR for two minutes prior to defibrillation	2 x _____ = _____
20. Not continuing CPR as AED is prepared	5 x _____ = _____
21. 2nd Rescuer not turning on AED	1 x _____ = _____
22. 2nd Rescuer not attaching AED pads	5 x _____ = _____

23. Touching patient while AED analyzes
24. Not switching rescuers
25. Not administering shock when advised
26. Not resuming CPR following delivery of shock (2nd rescuer delivering compressions)
27. First rescuer not providing breaths with either bag or CPR mask

1 x _____ = _____
 1 x _____ = _____
 5 x _____ = _____
 5 x _____ = _____
 1 x _____ = _____

CPR with AED

Subtotal _____

B. Rescue Breathing (One Person)

1. Not checking accident scene to ensure personal safety, prior to entering the scene
2. Not taking body substance isolation (BSI) precautions (glasses, gloves, and CPR barrier) prior to patient contact
3. Not determining responsiveness
4. Not activating 9 1 1
5. Not requesting an Automated External Defibrillator (if available)
6. Not opening airway
7. Using head tilt/chin lift maneuver when modified jaw thrust should be used
8. Not assessing breathlessness
9. Not checking for carotid pulse for 5 to 10 seconds
10. Not providing rescue breathing when pulse is found
11. Not repositioning the head if initial breaths do not go in
12. Not giving one breath every 5 to 6 seconds
13. Not reassessing pulse after 2 minutes
14. Not performing CPR in accordance with EMR and AHA guidelines

Discounts

5 x _____ = _____
 15 x _____ = _____
 1 x _____ = _____
 1 x _____ = _____
 2 x _____ = _____
 2 x _____ = _____
 2 x _____ = _____
 1 x _____ = _____
 1 x _____ = _____
 4 x _____ = _____
 1 x _____ = _____
 2 x _____ = _____
 2 x _____ = _____
 10 x _____ = _____

Rescue Breathing

Subtotal _____

Station #1

Total Discounts _____

Judge

Judge

Scorecard Examiner

Notes

FLORIDA MINE SAFETY PROGRAM
METAL AND NONMETAL FIRST AID COMPETITION
Judges' Discount Card

Station #2

Patient Assessment

Physical Shock

Musculoskeletal Injuries

Control of Bleeding

Soft-Tissue Injuries and Burns

Transportation

Team

Name: _____

Team Members: Captain

Team

Number: _____

Date: _____

Time to Complete Problem _____

A. Patient Assessment

Primary Assessment

1. Not checking accident scene to ensure personal safety
2. Not taking body substance isolation (BSI) precautions (glasses, gloves, and CPR barrier)
3. Not administering patient assessment
4. Not assessing responsiveness/mental status
5. Not assessing breathing - look, listen, feel
6. Not managing injuries compromising breathing/ventilation
7. Not stabilizing head if spinal injury is suspected
8. Not assuring adequate ventilation
9. Not checking carotid pulse
10. Improperly checking for a pulse
11. Not visibly checking for profuse bleeding – state to judge that you are looking for bleeding
12. Not managing injuries compromising circulation
13. Not doing primary assessment in proper sequence

Discounts

5 x	_____	=	_____
15 x	_____	=	_____
25 x	_____	=	_____
1 x	_____	=	_____
10 x	_____	=	_____
1 x	_____	=	_____
2 x	_____	=	_____
1 x	_____	=	_____
10 x	_____	=	_____
2 x	_____	=	_____
15 x	_____	=	_____
10 x	_____	=	_____
2 x	_____	=	_____
15 x	_____	=	_____

Secondary Assessment

14. Not examining head (scalp, blood in hair, ears, etc.)
15. Not assessing facial area
16. Not assessing eyes
17. Not inspecting nose
18. Not inspecting mouth
19. Not examining neck
20. Not checking position of trachea
21. Not inspecting jugular veins for distention
22. Raising head if suspected spinal injury exists
23. Not checking chest (placing hand on chest)
24. Not checking abdominal area

1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
1 x	_____	=	_____
6 x	_____	=	_____
2 x	_____	=	_____
2 x	_____	=	_____

25. Not checking pelvic area for injury
26. Not checking genital area for obvious injury
27. Not checking under patient (lower back) for injury
28. Not checking lower extremities for injury
29. Not checking lower extremities for paralysis
30. Not checking upper extremities for injury
31. Not checking upper extremities for paralysis
32. Not inspecting back
33. Not checking head-to-toe (according to fundamentals)
34. Not checking medic alert bracelets/necklace)
35. Work other than taking support or controlling bleeding during secondary survey
36. Not obtaining vital signs (BP, pulse, respirations)

2 x ____ = ____
 4 x ____ = ____
 4 x ____ = ____

Patient Assessment

Subtotal _____

B. Control of Bleeding

1. Not controlling arterial bleeding immediately
2. Not applying direct pressure to control arterial bleeding
3. Releasing direct or pressure before bleeding is controlled
4. Elevating an extremity with fracture present
5. Not applying a tourniquet when direct pressure does not control bleeding
6. Tourniquet – Ineffective application, improperly applied or loosened during problem and document time
7. Applying tourniquets when not required
8. Not giving any treatment for internal bleeding
9. Bandages improperly applied (not entirely covered, wrong location, method, or position of knot, etc.)
10. Failure to reassess distal circulation after bandaging extremities
11. Removing or attempting to replace a dressing that is applied directly to the wound

Discounts
 20 x ____ = ____
 20 x ____ = ____
 4 x ____ = ____
 4 x ____ = ____
 10 x ____ = ____
 4 x ____ = ____
 4 x ____ = ____
 4 x ____ = ____
 2 x ____ = ____
 4 x ____ = ____
 2 x ____ = ____

Control of Bleeding

Subtotal _____

C. Physical Shock

1. Not administering oxygen per local protocols
2. Not keeping patient in supine position
3. Not calming and reassuring the patient
4. Not maintaining a normal body temperature
5. Providing fluids or food to the patient
6. Not monitoring ABC's and vital signs

Discounts
 2 x ____ = ____
 1 x ____ = ____
 2 x ____ = ____
 1 x ____ = ____
 4 x ____ = ____
 4 x ____ = ____

Physical Shock

Subtotal _____

D. Soft-Tissue Injuries and Burns

1. Not applying dressing for wound or burn (each)
2. Not applying cover dressing
3. Not using sterile gauze or sterile dressing
4. Bandages improperly applied (not entirely covered), wrong location or method)
5. Failure to place gauze between fingers, toes, or back of ear (when required)
6. Not properly treating an impaled object
7. Not removing or indicating removal of clothing from affected area
8. Not properly treating an evisceration
9. Not simulating or indicating that gauze is moist (when required)
10. Failure to properly treat sucking chest wound
11. Not treating injuries in their proper order (according to fundamentals)
12. Not properly treating eye injuries

Discounts

8 x _____ = _____
 4 x _____ = _____
 1 x _____ = _____
 2 x _____ = _____
 6 x _____ = _____
 2 x _____ = _____
 10 x _____ = _____
 4 x _____ = _____
 1 x _____ = _____

Soft-Tissue Injuries and Burns**Subtotal** _____**E. Musculoskeletal Injuries**

1. Not rendering any treatment for a strain or sprain (each infraction)
2. Not treating suspected spinal injury, fracture of pelvis or thigh (each) (this includes not using a properly sized cervical collar)
3. Not treating fractures other than (#4) (each)
4. Failure to properly treat suspected skull fracture
5. Failure to support fractures/dislocations until properly splinted
6. Not properly treating dislocations (each)
7. Failure to properly splint
8. Failure to properly apply padding where needed
9. Failure to check distal circulation and sensation before and after splinting
10. Improperly lifting or rolling of patient (lifting to knee when patient has dislocated or fractured hip or spinal injury)
11. Failure to apply cold applications to reduce pain and swelling
12. Improperly applied bandages
13. Improperly applied slings when required (each)

Discounts

4 x _____ = _____
 12 x _____ = _____
 10 x _____ = _____
 2 x _____ = _____
 6 x _____ = _____
 8 x _____ = _____
 2 x _____ = _____
 1 x _____ = _____
 2 x _____ = _____
 1 x _____ = _____

Musculoskeletal Injuries**Subtotal** _____**F. Preparation for Transportation**

1. Improper "log roll"
2. Patient not placed on a spine board when required
3. Improperly secured to a spine board or stretcher

Discounts

2 x _____ = _____
 2 x _____ = _____
 1 x _____ = _____

Preparation for Transportation**Subtotal** _____

1. Failure to locate and treat any condition (each infraction) 10 x ____ = ____
2. Not completing problem in specified time 25 (total) _____
3. Any team found committing an act that will endanger the patient, each infraction 50 x ____ = ____
4. Any team whose member(s) intentionally disturb or destroy any component on a competition field will immediately be assessed this discount. Repeated offense may result in team disqualification at the discretion of the contest director. 100 (total) _____

Station #2

Total Discounts _____

Judge

Judge

Scorecard Examiner

Notes

Visit the Mine Safety and Health
Administration Website at
www.msha.gov
and the MSHA State Grants Program at
**[https://www.msha.gov/state-grant-
participants](https://www.msha.gov/state-grant-participants)**

