

2010 40th Annual Ontario Open First Aid Challenge

Chemical Burns INDIVIDUAL SCENARIO (AMFR) - ARMBAND

There will be the standard 3 minute announcement into the problem. At that time it is expected that the competitor will have activated EMS and identified life threatening emergencies. There will also be a 2 minute left signal for the team's benefit announcing the end of the scenario is near. At that time the EMS will arrive and request a verbal report from the competitor.

Background

In this scenario, the casualty was attempting to unclog a drain in the arena's washroom, while using a commercial drain cleaner a cloud of gas erupts from the drain and 'burps' liquid and gas into his/her face. The casualty burns his/her face and eyes as well he/she inhales toxic gas from the drain and will be experiencing pain and eventually develop respiratory distress.

There is only one casualty (a male casualty kneeling on the floor) and you, the judge, acting as a bystander.

You are trained in first aid but its been "since college", you are available to call 9-1-1 for the competitor.

The casualty will complain of burning in eyes, face and have increasing difficulty breathing. The casualty's voice is hoarse and complains of some mild difficulty breathing. As the scenario progresses the work of breathing increases and is accompanied with accessory muscle use. Initially the casualty is tachypneic, as the damage to his/her airway worsens the respirations become more laboured, shallow.. The competitor is alone for this scenario, with minimal assistance available from the bystander.

The casualty requires flushing of the chemical burns to his/her face and eyes. **Adequate flushing to be considered a full 500ml bottle.** Recognition of the respiratory distress and activation of EMS is indicated within the first few minutes of the scenario. The competitor is expected to utilize the bystander to activate EMS, however the competitor may choose to do this themselves. The act of activating EMS will take at most 90 seconds to make the phone call and return to the scenario.

At the sounding of the "2 minutes remaining" warning, the paramedics will arrive and request report from the competitor. The scenario will be concluded even if the competitor is not finished their report/handover to EMS.

INJURIES

- Adult casualty is conscious upon arrival of the competitor.
- Casualty will have chemical facial, airway and eye irritation
- Casualty will be experiencing increasing amounts of respiratory distress with audible stridor and visible distress (use of accessory muscles) as the scenario progresses
- Decrease in level of consciousness as the the casualties respiratory status deteriorates
- Casualty will be experiencing increasing amounts of pain associated with the burns
- Casualty is awake and alert when competitor arrives and will complain of:
 - mild discomfort to face and irritation to eyes and mouth
 - Difficulty breathing
 - Shortness of breath

PROPS/Equipment

- 7 Adult male casualties wearing disposable coveralls with disposable coveralls
- 7 Standardized First Aid Kits
- Bottled water x 30 (500 ml)
- Clipboards 1 for judge
- 7 spare pens (if competitor did not bring their own or their pen fails)
- 30 Lined pieces of paper
- 7 Janitor carts with garbage bins and mop and buckets (dual purpose, for cleaning and as a prop for the scenario)
- 7 bottles of chemicals (like drano or other commercial type drain unclogger)
- 7 plungers

CASUALTY PROMPTS

- Casualty experiences mild discomfort initially that becomes more painful as scenario progresses
- The casualty complains of blurry vision from both eyes and ++ irritation
- The casualty is experiencing difficulty breathing – this progresses to shortness of breath with laboured respirations as the scenario progresses
- Pertinent Medical History: High Blood Pressure (information provided only if asked).
- Taking medication for hypertension; cannot remember name.
- Allergies: Penicillin (rash) plus ragweed (mild).

JUDGES' PROMPTS

- Judge informs competitor that the area is safe **only if asked.**
 - 1st set of Vital Signs:

HR	110 regular/full
RR	20 regular/full
Skin	Red, Warm, and moist
LOC	Alert, able to answer questions and speak spontaneously in short sentences
LOA	Alert to person, place, time
BP	158/96
 - 2nd set of Vital Signs:

HR	126 regular/weak
RR	24 irregular/laboured/audible stridor
Skin	Red, Warm, and moist
LOC	Responsive to pain only
LOA	Unable to assess
BP	94/54
 - 3rd set of Vital Signs:

HR	130 regular/weak
RR	28 irregular/laboured/audible stridor
Skin	Red, Warm, and moist
LOC	Responsive to pain only
LOA	Unable to assess
BP	94/54
- Casualty is awake and alert when competitor arrives and will complain of:
 - mild discomfort to face and irritation to eyes and mouth
 - Difficulty breathing
 - Shortness of breath

2010
40th Annual Ontario Open
First Aid Challenge

INDIVIDUAL SCENARIO – AMFR - ARMBAND

TEAM Information

Please **print** the following information:

Team Number _____

Team Member #1 (Wrist Banded) _____

Team Member #2 (not Banded) _____

Judges' Name(s) _____

Page 4, Scene / Primary Survey **Sub Total** _____
(Possible 390)

Page 5, Secondary Survey (Possible 150) **Sub-Total** _____

Page 6, First Aid Provided (Possible 310) **Sub-Total** _____

Page 7, Head to Toe Survey (Possible 150) **Sub-Total** _____

Page 8, Recording/Handover (Possible 245) **Sub-Total** _____

Secondary Survey/Treatment Points Total _____
(Possible 855)

Total Points Awarded

Primary + Secondary Total (Possible 1245)

2010
40th ANNUAL ONTARIO OPEN
First Aid Competition
Chemical Burns - Individual Scenario – AMFR - ARMBAND

SCENE / PRIMARY SURVEY: This section is active for the first 3 minutes of the scenario only. During these first 3 minutes, the competitor may perform the actions that are both listed here and in the Secondary Survey. After the 3 minutes, the competitor is eligible to receive marks only in the Secondary Survey and no marks may be awarded in this Primary Survey. <i>Actions in this section may be done in any order.</i>		A/S	P O I N T S	N O T D O N E
1.1	Did a First Aider take charge of the situation? <i>(Casualty told not to move?)</i>	S	20	0
1.2	Did First Aider I.D. self?	A/S	20	0
1.3	Did First Aider obtain consent to help?	A/S	20	0
1.4	Did First Aider call out for help from by-stander(s)?	S	20	0
1.5	Were hazards assessed? <i>(Did the First Aider comment about their environment, or ask about hazards? Recognizes can/container of Drano)</i>	S	20	0
1.6	Did First Aider put on protective gloves? <i>(Must actually be worn to receive points)</i>	A	30	0
1.7	Did First Aider determine if there are other casualties? <i>(There is only this one casualty)</i>	S	20	0
1.8	Did First Aider determine/state the mechanism of injury? <i>(No C-spine injury; casualty kneeling after feeling being splashed in the face)</i>	A/S	20	0
1.9	Did First Aider assess responsiveness? <i>(Casualty is fully responsive)</i>	A	20	0
1.10	Did First Aider assess airway? <i>(airway is clear; complains of mouth irritation)</i>	A/S	20	0
1.11	Did First Aider assess breathing? <i>(20, regular and full)</i>	A	20	0
1.12	Did First Aider assess the casualty's circulation - skin condition and temperature? <i>(Red, warm and moist)</i>	A	20	0
1.13	Did First Aider perform a rapid body survey? <i>(No gross bleeding found)</i>	A	20	0
1.14	Did First Aider activate EMS? <i>(By-stander available to do this, or competitor may use cell phone)</i>	A	20	0
PAGE 4 SUB-TOTAL POINTS AWARDED				
Primary Survey (Possible 390)				

SECONDARY SURVEY: Actions in this section may be performed by the competitor in the first 3 minutes of the scenario as well as the Primary Survey . After the first 3 minutes, this is the only section in which that that points shall be awarded. <i>Actions in this section may be done in any order.</i>		A/S	P O I N T S	N O T D O N E
2.0	HISTORY OF THE CASUALTY:			
2.1	Did the First Aider check for a medical alert device? <i>(none found)</i>	A/S	10	0
2.2	Did the First Aider ask casualty what happened?	S	10	0
2.3	Did the First Aider ask if casualty has any Past Medical History? <i>(High Blood Pressure)</i>	S	10	0
2.4	Did the First Aider ask bystander if casualty has any allergies? <i>(Penicillin, ragweed)</i>	S	10	0
2.5	Did the First Aider ask if casualty takes any medication? <i>(Can't remember the name, casualty does not have this with them.)</i>	S	10	0
2.6	Did the First Aider ask if casualty had eaten? <i>(Coffee for breakfast)</i>	S	10	0
2.7	Did First Aider ask casualty what happened before their arrival? <i>Casualty was cleaning in the washroom and trying to clear a drain when gas and liquied sprayed out of the drain into his/her face.)</i>	S	10	0
3.0	CASUALTY'S VITAL SIGNS ASSESSMENT			
3.1	Did First Aider determine Level of Consciousness? <i>(Fully responsive)</i>	A	10	0
3.2.	Did First Aider assess Respirations? <i>(Correct to 20 regular and full.)</i>	A	10	0
3.3	Did First Aider assess Pulse? <i>(Carotid or radial OK.)</i> <i>(Correct to 110 full and regular.)</i>	A	10	0
3.4	Did First Aider assess Skin Condition & Temperature? <i>(Correct to flushed, hot and moist)</i>	A/S	10	0
3.5	Did First Aider assess Blood Pressure? <i>(158/96)</i>	A	10	0
3.6	Did First Aider assess Level of Consciousness? (alert)	A/S	10	0
3.7	Did First Aider assess Level of Awareness? <i>(Person, Place, Time; aware x 3)</i>	A/S	10	0
PAGE 5 SUB-TOTAL POINTS AWARDED				
Secondary Survey (Possible 150)				

4.0	FIRST AID PROVIDED	A/S	P O I N T S	N O T D O N E
4.2	Did First Aider identify potential for burns to the airway?	S	10	0
4.3	Did First Aider identify burns to face?	A/S	10	0
4.4	Did First Aider flush burns with <u>full (500cc)</u> water from bottle?	A	40	0
4.5	Did First Aider flush face with water?	S	10	0
4.6	Did First Aider verbalize they would be “flushing the eyes with water for at least 10 min?” if available.	S	10	0
4.7	Did First Aider administer Oxygen via Non-rebreathing mask?	A	10	0
4.8	Did First Aider dress the burns of the face?	A	10	0
4.9	Did First Aider cover both eyes?	A	10	0
4.10	Did First Aider verbalize interventions after dressing eyes?	S	20	0
4.11	Did First Aider put the casualty at rest?	A/S	20	0
4.12	Did First Aider identify a change in casualty’s condition? <i>(Decrease in LOC, and increase in Work of Breathing)</i>	S	20	0
PAGE 6 SUB-TOTAL POINTS AWARDED				
FIRST AID PROVIDE		(Possible 310)		

5.0	Head To Toe Survey:	A/S	P O I N T S	N O T D O N E
5.1	Check scalp? <i>(Clear)</i>	A	10	0
5.2	Check eyes? <i>(eyes appear irritated; periorbital swelling present)</i>	A	10	0
5.3	Check nose? <i>(Redened and swollen nares)</i>	A	10	0
5.4	Check mouth? <i>(Redened and swollen)</i>	A	10	0
5.5	Check jaw? <i>(Clear)</i>	A	10	0
5.6	Check ears? <i>(Clear – no fluid)</i>	A	10	0
5.7	Check neck? <i>(Clear – no deformity)</i>	A	10	0
5.8	Check collarbones? <i>(Clear)</i>	A	10	0
5.9	Check shoulders? <i>(Clear)</i>	A	10	0
5.10	Check both arms/hands? <i>(Clear)</i>	A	10	0
5.11	Check chest? <i>(Must auscultate both sides; A/E Clear – no deformity)</i>	A	10	0
5.12	Check abdomen? <i>(Clear – no rigidity, etc.)</i>	A	10	0
5.13	Check back? <i>(Clear)</i>	A	10	0
5.14	Check pelvis? <i>(Clear)</i>	A	10	0
5.15	Check both legs/feet? <i>(Clear – no deformity)</i>	A	10	0
PAGE 7 SUB-TOTAL POINTS AWARDED				
Head To toe Survey		(Possible 150)		

6.0	RECORDING	A/S	P O I N T S	N O T D O N E
6.1	Was the date recorded?	A	5	0
6.2	Was the time recorded?	A	5	0
6.2	Was the casualty's information recorded? <i>(Competitor must make notation.)</i>	A	10	0
6.3	Was the First Aider's information recorded? <i>(name)</i>	A	10	0
6.4	Was any event/incident history recorded <i>(i.e. Casualty felt unwell today, chest pressure after exertion, etc)</i>	A	10	0
6.5	Were the vital signs recorded? <i>Level of Consciousness</i>	A	5	0
6.6	Level of Awareness	A	5	0
6.7	Respiratory Rate	A	5	0
6.8	Blood Pressure	A	5	0
6.9	Skin Condition and Temperature	A	5	0
6.10	Was the change in patient condition documented? <i>(unresponsiveness and increased work of breathing)</i>	A	10	0
6.11	Was the casualty's Allergies recorded	A	10	0
6.12	Was the casualty's Medications recorded	A	10	0
6.13	Was the casualty's Past Medical History recorded? <i>(High Blood Pressure)</i>	A	10	0
6.14	Was the time, flow rate and delivery device for Oxygen administration recorded?	A	10	0
6.15	Was the treatment for burns recorded?	A	10	0
7.0	Handover to Paramedics			
7.1	Did First Aider identify themselves to EMS?	S	10	0
	Did First Aider identify casualty? (name & age)	S	10	0
7.2	Did First Aider identify the patient's chief complaint? <i>(burns to face, eyes, and difficulty breathing)</i>	S	10	0
7.3	Did First Aider report the how the injuries occurred (mechanism of injury) and incident history? <i>(splash of drain de-clogging solution into face and eyes)</i>	S	10	0
7.4	Did the First Aider report the past medical history? <i>(high blood pressure)</i>	S	10	0
7.5	Did First Aider report the baseline vital signs?	S	10	0
7.6	Did First Aider report the findings of the physical assessment? <i>(burns to face, eyes, and ?possible airway involvement)</i>	S	10	0
7.7	Did First Aider describe the care they provided to the patient <i>(started oxygen therapy, flushed eyes/face, dressed burns)</i>	S	10	0
7.8	Did First Aider report change in responsiveness and work of breathing?	S	10	0
7.9	Did First Aider describe how the patient responded to any treatments provided?	S	10	0
PAGE 8 SUB-TOTAL POINTS AWARDED				
Recording		(Possible 245)		