

# 37th ANNUAL ONTARIO OPEN First Aid Competition

## JUDGE'S COPY

### **Classroom** INDIVIDUAL SCENARIO

*It is November 17th and your team is in attendance at the Occupational Health & Safety Conference being held at Milliken Mills Secondary School. You are on your way to a break-out session of the conference when you happen across an emergency situation. Do you know what to do?*

*Good luck! You have 20 minutes to complete the scenario – this competition problem allows for **only one member** of your team to compete and provide first aid. You must also complete a Patient Care Record (PCR) during the timeframe. You can only use resources readily available within your competition cell area (you may ask judges what is truly available for your use).*

There will be a "2 minute" warning announced prior to the end of the scenario.

#### **Background (Competitors will not have access to this info)**

There is one casualty in this scenario.

The casualty is a janitor and was working in a classroom when he accidentally spilled the caustic cleaning powder on his skin causing a chemical burn to his left forearm. He also has a small contact burn to his right hand when he tried to wipe away the chemical.

There are no bystanders available in this scenario.

The casualty is also a Type I diabetic and injects insulin 4 times per day. Because the Occupational Health & Safety Conference has been busy, the casualty has missed breakfast/lunch (depending on time of day) and is now hypoglycemic, which may have contributed to his accident with the chemical cleaning agent.

#### **INJURIES**

- Dry chemical burns to left forearm (area of redness and white powder – baking powder- on forearm). Large area of 1<sup>st</sup> degree burn (redness) and a few **small**, blisters (2<sup>nd</sup> degree)
- Small amount of redness to right hand after he attempted to wipe away the dry chemical
- The patient is hypoglycemic after skipping breakfast/lunch today

#### **CASUALTY PROMPTS**

- Casualty is found standing in a classroom next to a cleaning cart
- Casualty is responsive, answers all questions easily
- Casualty will provide answers to the competitor like:  
*"I was cleaning but I don't remember how I spilled the chemical on my arm!"*  
*"it burns so bad... it really hurts"*  
*"I really don't feel very good"*  
*"I think I need to eat something"*  
*"I usually take 3 glucose tabs when I feel low, but 1 should be enough"*
- Casualty is feeling a little light-headed, but is distracted by the pain in his left forearm
- Once the competitor treats the injuries, the casualty's pain will lessen and he will then start to report his symptoms of light headedness, hunger, and nausea

- As time progresses through the scenario, the patient will still be able to answer all questions, but will be slower to respond and have to think harder
- Casualty ate missed breakfast or lunch depending on the time of day for the scenario, but ate the meal before
- Casualty has no known allergies
- Casualty takes 2 different kinds of insulin: \*\*\* Create MED cards for wallet/pocket
  - NovoRapid before each meal (breakfast, lunch, dinner)
  - Levemir (long acting) before bedtime
- Past Medical History: Type I Diabetes

### JUDGES' PROMPTS

- Hazards: dry caustic chemical (will be simulated with baking soda)
- 1<sup>st</sup> set of Vital Signs:

HR	108	rapid/full
RR	20	regular/full
Skin	cool, slightly moist, and normal colour	
LOC	awake and alert	
- 2<sup>nd</sup> set of Vital Signs:

HR	96	rapid/full
RR	18	regular/full
Skin	cool, slightly moist, normal colour	
LOC	*feeling very dizzy, lightheaded, but conscious	

\*(unless treated with glucose tabs, then LOC is normal)
- Casualty is awake, alert & responsive – casualty should have increasing difficulty with answering questions/concentrating, and slow to respond
- The casualty will remember that he keeps a package of glucose tabs on his cleaning cart and will agree to chew one

### PROPS

- Casualties need normal clothing (but a janitor's outfit/coveralls would be better)
- \*\*\* Create MED card for casualty's wallet/pocket
- Janitor cleaning cart x6 (from Milliken Mills High School)
- Cleaning carts will have a box of large gloves (6 boxes)
- BD Glucose Tablets x6 packages (6 tabs per box) – available at any pharmacy OTC



- Patient Care Record (PCR) – 1 for each casualty per rotation (~35 needed)
- Clean cloths on cleaning carts to help brush away chemical
- Bottles of water on cleaning cart for flushing burn once dry chemical removed
- SJA #1 first aid kit on each cleaning cart (x6)
- Judges clipboards
- Pens for competitors if they don't have their own.
- Boxes of baking soda (x6) – plus some kind of container to simulate an original cleaning agent container?

2007

**37th ANNUAL ONTARIO OPEN  
First Aid Competition**

**TEAM Information**

Please print the following information:

Team Number \_\_\_\_\_

Team Member #1 (Red Band) \_\_\_\_\_

Team Member #2 \_\_\_\_\_

Judges' Names \_\_\_\_\_

**Page 4 Primary Survey Page 1 Total** \_\_\_\_\_  
(Possible 340)

**Page 5, Secondary Survey Page 1, Sub-Total** \_\_\_\_\_  
(Possible 110)

**Page 6, Secondary Survey Page 2, Sub-Total** \_\_\_\_\_  
(Possible 270)

**Page 7, Secondary Survey Page 3, Sub-Total** \_\_\_\_\_  
(Possible 125)

**Secondary Survey Points Total** \_\_\_\_\_  
(Possible 505)

<p><b>Total Points Awarded</b> Primary + Secondary Total (Possible 845)</p>	
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<b>SCENE / PRIMARY SURVEY:</b> 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	<b>Did a First Aider take charge of the situation?</b> (competitor tells casualty not to move? )	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	<b>Did First Aider call out for help from by-standers?</b>	S	20	0
1.5	Were hazards assessed? (casualty has caustic chemical on Left arm, and right hand; container is on the floor)	S	20	0
1.6	Did the First Aider put on protective gloves?	A	20	0
1.7	Did First Aider attempt to remove dry chemical from casualty's left forearm by brushing it away with a cloth?	A	20	0
1.8	Did First Aider attempt to remove dry chemical from casualty's right hand by brushing it away with another cloth?	A	20	0
1.9	Did the First Aider avoid obvious contact with dry chemical and protect themselves from contamination? (judge observes technique to ensure first aider was safe)	A	20	0
1.10	Did First Aider determine if there are other casualties? (there is only one patient)	S	20	0
1.11	<b>Did First Aider determine/state the mechanism of injury?</b> (no C-spine injury)	A/S	20	0
1.12	<b>Did First Aider assess responsiveness?</b> (level of consciousness: casualty is fully conscious )	A/S	20	0
1.13	<b>Did First Aider assess airway ?</b> (casualty can talk clearly; no airway compromise)	A/S	20	0
1.14	<b>Did First Aider assess breathing?</b> (present; no distress)	A/S	20	0
1.15	Did First Aider assess circulation?	A/S	20	0
1.16	Did First Aider perform a rapid body survey? (no signs of bleeding)	A/S	20	0
1.17	<b>Did First Aider assess the casualty's skin condition and temperature ?</b> (skin is cool, slightly moist, and normal colour)	A/S	20	0
<b>SUB-TOTAL POINTS AWARDED</b>				
<b>Page 1 – PRIMARY SURVEY</b>				
(Possible 340)				

<b>SECONDARY SURVEY:</b> Actions in this section may be performed by the competitor in the first 3 minutes of the scenario as well as the <b>Primary Survey</b> . After the 3 first minutes, this is the only section that points shall be awarded to.		A/S	P O I N T S	N O T D O N E
<b>Actions in this section may be done in any order.</b>				
2.0	<b>HISTORY OF THE CASUALTY:</b>			
2.1	Did the First Aider check for a medical alert device? ( <i>none</i> )	A/S	10	0
2.2	Did the First Aider ask casualty if they have any allergies? ( <i>no known allergies</i> )	S	10	0
2.3	Did the First Aider ask if casualty takes any medication? ( <i>NovoRapid (insulin) before each meal, and Levemir (insulin) before bedtime</i> )	S	10	0
2.4	Did the First Aider ask the casualty if they have any medical conditions? ( <i>type I diabetes; no other medical problems</i> )	S	10	0
2.5	Did the First Aider ask if casualty had eaten? ( <i>ate "earlier", but skipped the most recent meal depending on time of day</i> )	S	10	0
2.6	Did the First Aider ask the casualty what happened/how the injury occurred?	S	10	0
3.0	<b>CASUALTY'S VITAL SIGNS ASSESSMENT</b>			
3.1	Did First Aider determine Level of Consciousness? ( <i>awake &amp; alert</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 108 full &amp; regular.</i> )	A	10	0
3.4	Did First Aider assess Skin Condition? ( <i>correct to normal colour &amp; slightly moist</i> )	A/S	10	0
3.5	Did First Aider check Skin Temperature? ( <i>correct to cool to touch</i> )	A	10	0
<b>SUB-TOTAL POINTS AWARDED</b>				
<b>Page 1 – SECONDARY SURVEY</b> (Possible 110)				

4.0	<b>CASUALTY – HEAD TO TOE ASSESSMENT</b>			
4.1	Check scalp? ( <i>no injury</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.2	Check eyes? ( <i>pupils equal, 4mm and reacts to light</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.3	Check nose? ( <i>clear</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.4	Check mouth? ( <i>mouth is clear</i> ) -First aider must physically look inside mouth/looks for injury	<b>A</b>	<b>10</b>	<b>0</b>
4.5	Check jaw? ( <i>no deformity</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.6	Check ears? ( <i>ears clear – no fluid</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.7	Check neck? ( <i>no deformity</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.8	Check collarbones? ( <i>no deformity</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.9	Check shoulders? ( <i>no deformity</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.10a	Check arms? ( <i>large, superficial 1<sup>st</sup> degree chemical burn to left forearm</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.10b	Check hands? ( <i>minor 1<sup>st</sup> degree chemical burn to right hand</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.11	Check chest ( <i>no deformity</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.12	Check abdomen? ( <i>casualty experiences no pain upon palpation</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.13	Check back? ( <i>no deformity</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.14	Check pelvis? ( <i>no deformity</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.15	Check both legs? ( <i>no injury</i> )	<b>A</b>	<b>10</b>	<b>0</b>
4.16	Check both ankles and feet? ( <i>no injury</i> )	<b>A</b>	<b>10</b>	<b>0</b>
5.0	<b>FIRST AID PROVIDED</b>			
5.1	Was the casualty warned not to move?	<b>A/S</b>	<b>10</b>	<b>0</b>
5.2	Did the first aider sit the patient down?	<b>A/S</b>	<b>10</b>	<b>0</b>
5.3a	Did the first aider flush the chemical burns to the left arm with water? ( <i>if first aider did not initially brush away dry powder earlier, no points awarded</i> )	<b>A</b>	<b>10</b>	<b>0</b>
5.3b	Did the first aider flush the chemical contamination to the right hand with water? ( <i>if first aider did not initially brush away dry powder earlier, no points awarded</i> )	<b>A</b>	<b>10</b>	<b>0</b>
5.4	Did the first aider bandage the left arm effectively?	<b>A</b>	<b>10</b>	<b>0</b>
5.5	Did the first aider assess circulation below the injury before bandaging?	<b>A</b>	<b>10</b>	<b>0</b>
5.5	Did the first aider assess circulation below the injury after bandaging? ( <i>can occur anytime after bandaging</i> )	<b>A</b>	<b>10</b>	<b>0</b>
5.6	Did the first aider determine that the casualty may be hypoglycemic?	<b>A</b>	<b>10</b>	<b>0</b>
5.7	Did the first aider treat the casualty with glucose tabs?	<b>A</b>	<b>10</b>	<b>0</b>
5.8	Did the first aider call 911?	<b>A</b>	<b>10</b>	<b>0</b>
<b>SUB-TOTAL POINTS AWARDED</b>				
<b>Page 2 – SECONDARY SURVEY</b> (Possible 270)				

6.0	<b>RECORDING</b>			
6.1	Was the date and time recorded?	<b>A</b>	<b>5</b>	<b>0</b>
6.2	Was the patient's information recorded?	<b>A</b>	<b>5</b>	<b>0</b>
6.3	Was the First Aider's information recorded?	<b>A</b>	<b>5</b>	<b>0</b>
6.4	Was the initial Level of Consciousness recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.5	Was the initial Respirations recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.6	Was the initial Pulse recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.7	Was the initial Skin Condition recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.8	Was the initial Skin Temperature recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.9	Was incident history recorded?	<b>A</b>	<b>5</b>	<b>0</b>
6.10	Was the left arm burn described in sufficient detail?	<b>A</b>	<b>5</b>	<b>0</b>
6.11	Was the treatment of the left arm burn documented?	<b>A</b>	<b>5</b>	<b>0</b>
6.12	Was the right hand burn described in sufficient detail?	<b>A</b>	<b>5</b>	<b>0</b>
6.13	Was the treatment of the right hand burn documented?	<b>A</b>	<b>5</b>	<b>0</b>
6.14	Was the assessment of distal circulation documented?	<b>A</b>	<b>5</b>	<b>0</b>
6.15	Was the right hand burn described in sufficient detail?	<b>A</b>	<b>5</b>	<b>0</b>
6.16	Was the patient's Allergies recorded? <i>(no known allergies/NKA)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.17	Was the patient's medications recorded? <i>(NovoRapid &amp; Levemir)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.18	Did the First Aider record when the casualty had last eaten?	<b>A</b>	<b>5</b>	<b>0</b>
6.19	Were Casualty's feelings of nausea, lightheadedness, or hunger recorded?	<b>A</b>	<b>5</b>	<b>0</b>
6.20	Was the administration of glucose tabs documented? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.21	Was the reassessed Level of Consciousness recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.22	Was the reassessed Respirations recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.23	Was the reassessed Pulse recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.24	Was the reassessed Skin Condition recorded with the time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
6.25	Was the reassessed Skin Temperature recorded with time taken? <i>(If no time recorded, then no mark.)</i>	<b>A</b>	<b>5</b>	<b>0</b>
<b>SUB-TOTAL POINTS AWARDED</b>				
<b>Page 3 – SECONDARY SURVEY</b> (Possible 125)				