

2017

St. John Ambulance OMFRC Competition First Aid Challenge

TEAM SCENARIO

Scenario # 5 “The Safer Cigarette”

Background Scenario:

Your team is on site providing first aid coverage for an open house of the different business & community partners at the Cotton Factory. As walking the grounds, when the following occurs:

You have 20 minutes to complete the scenario,
Good Luck!!

There will be a 3-minute warning signify the end of the primary survey.

There will also be a 2-minute left signal for the team's benefit.

**THIS PAGE IS GIVEN TO TEAMS AT THE
BEGINNING OF THE SCENARIO**

CASUALTY SIMULATORS INFORMATION - Scenario # 5

(BACKGROUND – NOT TO BE SHARED WITH COMPETITORS)

Scenario Location: 1st floor Brush shop

Team Info: Your team is on site providing first aid coverage for an open house of the different business & community partners at the Cotton Factory. As walking the grounds, when the following occurs: (then a simulated explosion occurs)

Overall Scenario:

Workers in the brush shop were using some chemicals to prepare the metal and wood for bending. One of them was going for his break and began using his E-Cigarette. Suddenly the Battery exploded and caused sparks to fly, causing a chain reaction with some of the used chemicals. Stored in the same area are a number of bottles and barrel of chemicals (acids with placards and Labels) which a number of them also exploded in the mayhem. Chemicals sprayed all over the area including having one patient with severe exposure to “fluorosilic acid.” Clothing should be singed in appropriate areas as per the locations of each patient’s burns. Other Products are labelled as “Phosphoric Acid” and “Nitric Acid”. (these chemicals are used for “pickling metal”)

Judges Info:

Your patients will have a lot of casualty simulation in place – including on face/ body. Please make sure the clothing reflects the areas of your patient. Also, please make sure that your site has chemical bottles, “liquid chemical” in place as well as MSDS for anything labelled on site and an Orange Haz mat/ Placard book for teams to use.

When the scenario starts – there will be a very loud “explosion” sound and smoke to draw teams into the area.

Scenario Set Up:

- **Total number of patients:** 2
- **Patient #1** - 2nd and 3rd degree Burns to the Face, Scalp upper chest and arms. Patient lying (upper body) near liquid “chemical” (simulated with wet look on floor, however NO actual liquid on the floor or on the patient!!)
- **Patient #2** – Severe Shortness of breath from inhalation burns. 2nd degree burns around mouth and nares. 1st degree burns to the face and exposed skin. Complaining of severe pain in the eyes from flash burns and anxiety due to being scared that they will be “blind the rest of my life!”
- **Scenario Props:** “Chemical” liquid for the floor (can be water with food coloring in it), chemical placard (“1778” or other acid), exploded chemical containers/barrels, dried skin peelings (dried oranges skins) for the floor near patient. Orange Haz Mat books – one per team in this site) MSDS sheets for all chemical on site in binder. Speaker with “explosion sound” for beginning of the scenario and smoke to signify an explosion. Metal and wood pieces as if having been in an explosion. Garden Hose (attached to wall to simulate unlimited Water source) SIMULATED: Exploded E-Cigarette on the floor beside patient #2.
- **First Aid Supplies Required:** FA Kit(s), Arm Splint, Blankets, PRCs
- **MFR Supplies:** Oxygen Kit(s), Spinal Boards x2, Spinal kit(s), Collars
 - Hopefully teams will recognize oxygen and fire risk. ☺

Timing Notes:

- There will be a 3-minute warning to signify the end of the primary survey. Teams will ONLY be able to score points from the first page during the first 3 minutes!
- There will also be a 2-minute remaining signal for the team’s benefit.
- Teams will be given 5 minutes after the scenario to complete paperwork while scenario re-set occurs.

CASUALTY SIMULATORS INFORMATION**Patient #1 – “3rd Burns”****SIMULATION:**

Information	Casualty Simulation Required
<ul style="list-style-type: none"> Conscious adult screaming. 	<ul style="list-style-type: none"> Ensure patient is aware of situation and SAMPLE. Patient lying (upper body) in liquid “chemical” (simulated with “wet look on floor” (no actual fluid)
<ul style="list-style-type: none"> 2nd and 3rd degree Burns Face/ Scalp 	<ul style="list-style-type: none"> Red, blisters with areas of broken blisters with some dried and peeling areas,
<ul style="list-style-type: none"> 2nd and 3rd degree Burns Chest & Arms 	<ul style="list-style-type: none"> Red, blisters with areas of broken blisters with some dried and peeling areas Burns to posterior length of LEFT arm, Anterior lower right arm not as simulated as left side! (as if the patient was turned) LEAVE RIGHT UPPER ARM WITHOUT BURNS!
<ul style="list-style-type: none"> Shock 	<ul style="list-style-type: none"> Amongst the burns, cyanosis of the lips

SAMPLE/ HISTORY & OPQRST (pain scale for AMFR/Pro Level):

S	Burns with severe pain.	<u>C/C: Burns:</u> O- chemicals exploded P- None Q- Burning R- Everywhere S- 10/10 T- Only since the explosion (a minute ago)
A	None	
M	None	
P	None	
L	About an hour ago	
E	You were working in the shop, your co-worker was headed out for a break when you heard a loud pop and suddenly there was an explosion in front of you. You don't know what happened but you are in a lot of pain.	

VITAL SIGNS:

	<u>1st SET</u>	<u>2nd SET</u>
RESP.	30 Irregular between screams	26 Irregular between screams
PULSE	130 Rapid & Bounding	134 Rapid & Bounding
B/P	90/50	74/40
SKIN	Red, Burnt with Cyanosis	Red, Burnt with lip cyanosis
LOC	Conscious & Screaming	Conscious & Screaming
PUPILS	Equal & Reactive	Equal & Reactive

CASUALTY SIMULATORS INFORMATION**Patient #2 – “Facial Burns”****SIMULATION:**

Information	Casualty Simulation Required
<ul style="list-style-type: none"> Conscious adult 	<ul style="list-style-type: none"> Ensure patient is aware of situation and SAMPLE. SEVERE Shortness of breath (inhalation burns)
<ul style="list-style-type: none"> 2nd degree burns around mouth & nares. 	<ul style="list-style-type: none"> Red with small blisters Complaining of severe pain in the eyes from flash burns.
<ul style="list-style-type: none"> 1st degree burns face, skin of neck & exposed arms. 	<ul style="list-style-type: none"> Red over exposed skin.
<ul style="list-style-type: none"> Flash Burns to Eyes 	<ul style="list-style-type: none"> Burning, painful eyes with complete vision loss Upset – repeatedly questions if they will be blind.

SAMPLE/ HISTORY & OPQRST (pain scale for AMFR/Pro Level):

S	Severe pain in burns, loss of vision with burning eyes.	<u>C/C: Burns:</u> O- explosion, flash in front of face P- None Q- Burning R- Your eyes & face S- 10/10 T- Only since the explosion (a minute ago)
A	None	
M	Vitamins – Calcium, Vitamin D	
P	“Vitamin problems”	
L	A coffee at your last break a little while ago.	
E	You are working in the shop, getting ready for your break when you started walking towards the back door (outside) you were using your E-Cigarette as you usually do. The next thing you know – you are seeing a huge blast in front of your eyes.	

VITAL SIGNS:

	<u>1st SET</u>	<u>2nd SET</u>
RESP.	26 Irregular & Wheezing	24 Irregular & Wheezing
PULSE	134 Bounding & Rapid	136 Bounding & Rapid
B/P	94/66	82/64
SKIN	Burnt red	Burnt red
LOC	Conscious	Conscious
PUPILS	Burns to eyes – no reaction	Burns to eyes – no reaction