

# COLLAPSED STRUCTURE SEARCH AND RESCUE (CSSR)

## LESSON 13 — OVERVIEW

Final Practical Evaluation

<b>Duration</b>	<p><b>Total time for all the phases be 9 Periods</b></p> <p><b>Phase 1:</b> (lecture)</p> <p><b>Phase 2:</b> (search in building)</p> <p><b>Phase 3:</b> (work in props)</p>
<b>Main Points</b>	<ul style="list-style-type: none"><li>• Scene assessment</li><li>• Void space search</li><li>• INSARAG Marking System</li><li>• Penetrating, removing rubble, shoring, lifting and extricating the patient</li></ul>
<b>Suggested Preparation</b>	<ul style="list-style-type: none"><li>• Carefully review the Exercise Guides for the Final Practical Evaluation</li><li>• Based on lesson objectives, highlight all relevant areas.</li><li>• Carefully review the tasks that the groups must complete and the sequence of activities.</li><li>• Write in any relevant additional notes or comments in the lesson plan.</li><li>• Prepare all stations the day before and inform participants that once they have been assigned to their work groups at the end of the previous lesson, they should select their group leaders before beginning the Final Practical.</li></ul>
<b>Evaluation System</b>	<ul style="list-style-type: none"><li>• <b>Phase 1</b> consists of a written group evaluation using a questionnaire that the group will turn in at the end of the Final Practical Evaluation.</li><li>• <b>Phases 2 and 3</b> are evaluated based on group performance, which the instructor checks off on a checklist.</li></ul>

## LESSON 13 — OVERVIEW (Cont.)

### Final Practical Evaluation

#### Materials and Resources Needed

#### 1. Phase 1

- PowerPoint presentation with images of collapsed structures (3)
- Computer and multi-media projector
- Projection screen
- Phase 1 Team Questionnaire

#### 2. Phase 2

- Clipboards (2)
- Megaphone (1)
- Blank sheets of paper (15)
- Site Sketch Diagrams (6)
- Neon-coloured spray paint cans (2)
- Safety vests (2)
- Perimeter tape (2 rolls)
- Two-way radios (6)
- Ball-point pens, blue or black (2)
- PPE for everyone

#### 3. Phase 3

- All items used throughout the CSSR course, plus any additional supplies available.

#### Other equipment and supplies

- Exercise field with props prepared as directed in the Coordinator's Guide and the Final Practical Evaluation Guide
- A building to conduct the search in Phase 2

LESSON

# 13

## FINAL PRACTICAL EVALUATION

Practical- 23 Periods



*Phase 1*



*Phase 2*



*Phase 3*

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## 1

### Purpose

To demonstrate the knowledge, techniques and skills learned in the CSSR course; to take the required steps when arriving on the scene, searching, locating, accessing, stabilizing and extricating a simulated victim in a simulated collapsed structure.

### Instructor Activity

## 2

### Performance Objectives

Upon completing the CSSR Course, you will be able to perform the following tasks as part of a 10-12 member CSSR team:

- 2.1 Demonstrate the correct initial steps that must be taken when arriving at the scene and before initiating a search.
- 2.2 Apply search techniques for trapped victims.
- 2.3 Gain access to void spaces in order to locate potential victims, using three basic techniques (removing rubble, shoring, and penetration).
- 2.4 Correctly stabilize and extricate a simulated patient.

The Final Practical Evaluation will be divided into **three phases**.

**3****Tools, Equipment and Supplies**

In order to complete the performance objectives, each work group will be given three consecutive simulated scenarios and the following general equipment and supplies:

**Instructor Activity****3.1 Phase 1**

- Multi-media projector
- Two (2) slides of collapsed structures
- Two (2) blank questionnaires
- Two (2) clipboards for note-taking
- Ten (10) blank sheets of paper
- Two (2) pens (blue or black ink)

**3.2 Phase 2**

- Two (2) clipboards with note pads
- One (1) megaphone
- Ten (10) blank sheets of paper
- Two (2) pens (blue or black ink)

**3.3 Phase 3**

<ul style="list-style-type: none"> <li>• Four (4) pry bars</li> <li>• Two (2) crowbars</li> <li>• Four (4) sledgehammer</li> <li>• Two (2) flat chisels</li> <li>• Two (2) diamond-point chisels</li> <li>• Two (2) chipping hammers</li> <li>• Two (2) axes</li> <li>• Two (2) hatchets</li> <li>• Four (4) saws</li> <li>• Four (4) hacksaws with 3 replacement blades for each (12 blades total)</li> <li>• Two (2) vise grips</li> <li>• Two (2) pairs of pliers</li> <li>• Two (2) pipe wrenches</li> <li>• Two (2) adjustable (crescent) wrenches</li> <li>• Two (2) slotted screwdrivers</li> <li>• Two (2) Philips screwdrivers</li> <li>• Two (2) files</li> </ul>	<ul style="list-style-type: none"> <li>• Two (2) hand drills</li> <li>• Four (4) shovels</li> <li>• Four (4) picks</li> <li>• Two (2) machetes</li> <li>• Four (4) brick hammers</li> <li>• Two (2) orange spray paint cans</li> <li>• Two (2) sisal ropes, 30 metres</li> <li>• Four (4) torches (flashlights)</li> <li>• Two (2) tarps, 4 x 4 metres</li> <li>• Two (2) measuring tapes, 3 metres</li> <li>• Thirty-two (32) wood blocks, 10x10x45 cm</li> <li>• Two (2) wood beams, 10 x 10 cm x 3 m</li> <li>• Seven (7) wood beams, 10 x 10 cm x 5 m</li> <li>• Eight (8) wood beams, 5 x 10 cm x 2.5 m</li> </ul>
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## Optional Tools

- Two (2) hydraulic spreader/cutter
- Two (2) hydraulic jacks (20-ton capacity)
- Two (2) chainsaws
- Two (2) electric/battery-powered drills
- Two (2) circular saws
- Two (2) air chisels
- Two (2) portable electric generators
- Two (2) rotary rescue saws

## Instructor Activity

You must use your own complete set of personal protective equipment. You must complete all three phases within nine (9) hours, following the techniques and procedures learned in this course.

The Final Practical Evaluation will be conducted in a field location with three simulated scenarios.

## 4

### Procedure Checklists

**Total time limit for all phases:** 9 hours

**Total number of instructors:** 6 instructors, 2 assistants

#### 4.1. Phase 1: Organising and Starting a CSSR Operation

**Time Limit:** 45 minutes

(There may be an activation call for a CSSR operation up to 3 hours before the start of Phase 1)

**Number of Instructors:** One lead instructor, one assistant

#### Sequence:

1. Organise group and assign specific duties for scene assessment.
2. Take required safety precautions.
3. Conduct preliminary study to estimate the number of potential trapped victims.
4. Establish work areas based on the scene.
5. Identify the type of structure.
6. List any additional resources required.
7. Identify risks.
8. Place marks on structures as required.
9. Other actions the group must take before initiating search.

## Procedure Checklists (Cont.)

### 4.2 Phase 2: Search

**Time Limit:** 45 minutes

**Number of Instructors:** One lead instructor, two assistants

#### Sequence:

1. Gather information from neighbours, relatives and personnel in charge of the building.
2. Complete inspection of building (360 degrees, if possible).
3. If available, obtain plans, photographs, or diagram of building.
4. Consult a structural engineer regarding safety before allowing rescue personnel to enter structure.
5. Develop plan of action to conduct search.
6. Assign tasks to team members appropriately.
7. Establish and prioritise areas with greater chance of having trapped victims.
8. Prepare and use a grid or coordinate system to ensure that all areas of the structure have been searched.
9. Locate all possible access points.
10. Use the call and listen method correctly.
11. Use the sound transmission method correctly.
12. Consider the possible use of canine teams or other alternative search methods.
13. Locate the possible trapped victim with minimum margin of error.

#### Instructor Activity

## 4

### Procedure Checklists (Cont.)

#### 4.3 Phase 3: Removal, Shoring, Lifting, Penetration and Rescue

**Time Limit:** 7 hours 30 minutes

**Number of Instructors:**

One lead instructor per simulator, two assistants

**Sequence:**

1. Select the correct tools and materials required.
2. Build horizontal shoring.
3. Cut and penetrate the wood/metal wall.
4. Break and penetrate the cinder block wall.
5. Break and penetrate the brick wall.
6. Break and penetrate the concrete wall.
7. Conduct complete patient assessment before moving the patient.
8. Lift the concrete pad to remove the patient.
9. Stabilise and immobilise the patient on long backboard before extrication.
10. Bring out the patient correctly through all the walls.
11. Maintain all safety measures throughout the entire operation.
12. Conduct the operation as a team, with proper rotation and task distribution.

## Guide to Conducting the Final Practical Exercise

### Phases 1, 2 and 3

#### **General Instructions:**

- All instructors must check all the tools, equipment and accessories (TEA) that they will be using, to ensure their proper functioning and availability of necessary components. Furthermore they need to confirm that the TEA will be available at the exercise site and that at the end of the day all TEA is properly maintained before being stored.
- The instructors will facilitate and evaluate the performance of the work groups in the Final Practical on their techniques and skills learned in the Course. Evaluation will relate to actions taken when arriving on the scene, searching, locating, stabilising and extricating a victim from a collapsed structure. Likewise, the instructors must ensure that their voices carries clearly, especially in noisy environments, in case there is a need to intervene. It is also of extreme importance to always appoint a safety officer and to make sure the participants are using their PPE correctly at all times.

#### **Purpose**

To demonstrate the knowledge, techniques and skills learned in the Course, taking the appropriate actions when arriving on the scene, searching, locating, stabilising and extricating a victim from a collapsed structure.

#### **Performance Objectives**

After completing the course, the participant, as member of a team consisting of 10-12 members, will be able to:

- Demonstrate the correct initial steps that must be taken when arriving at the scene and before initiating a search.
- Apply the techniques to search for potential victims.
- Gain access to a void space to locate a victim using the basic techniques (removing rubble, shoring and penetration).
- Correctly stabilise and extricate a simulated patient.

## **Procedure:**

### **Phase 1**

### **Instructor Activity**

- On the day before Lesson 11 ends, you will create two work groups and instruct them to assign functions within each group (leader, logistics coordinator, safety officer, etc.) to coordinate the work for Phase 1.
- The night before the final exercise, someone designated by the Course Coordinator must place two calls beginning at 12:00 a.m. according to the following criteria:

The aim of this first phase is to simulate conditions of a real CSSR team deployment. Therefore, it is recommended to convey two messages to the participants, allowing three hours between messages. The first message can be given between midnight and 1:00 a.m.; the second between 3:00 and 4:00 a.m.

**It is best if the Course Coordinator selects in advance the image of the collapsed structure that will be used in Phase 1 and adapts the content of the messages to local conditions of the area where the course is being conducted.**

#### **Example of Message 1:**

“An earthquake occurred in \_\_\_\_\_. Detailed information is still sketchy. Please stay where you are until you receive additional information.”

#### **Example of Message 2:**

“We have confirmed that there are two collapsed buildings. The CSSR team will be activated. Mobilize in [place] at [time] in the morning with all your equipment ready. Please do not arrive before the assigned time.”

- The exercise will begin at 07:30 with Lesson 11 Post-Test.
- At 08:00, Group 1 must be in the classroom for Phase 1 of the Final. Meanwhile, Group 2 must be confined in a different location to prevent them from seeing the work area, prop configurations, or Phase 1 activities of the Final Practical.
  - Detailed information about the scene will be read to the participants in Group 1 outside the Phase 1 classroom. After hearing this information, Group 1 will be given 5 minutes to organize. Then a transparency of a selected scene is presented. The group will be allowed to view the transparency and take notes (total time for the entire process is 10 minutes).
  - Hand out the questionnaire to the group leader. The leader and his/her team members will complete the questionnaire in 20 minutes or less.
  - Once they turn in the completed questionnaire to the instructor, Group 1 will proceed to Phase 2.
  - Group 2 then enters the Phase 1 classroom and repeats the above steps.

## Phase 2

1. Group 1 takes all of their equipment and proceeds to the Phase 2 designated area.
2. One of the instructors plays the role of an employee in the building where the search will take place. He/she will answer any questions about the structure and the event, which the group leader will use for compiling pertinent information needed for completion of this phase. The instructor should take note of whether the leader requests building plans and photos of the structure.
3. The group leader assigns a team member to sketch a diagram of the building using the "Site Sketch Diagram" form, makes 5 copies and gives one to each group member to aid them in their search.
4. Group members will then cordon off the search perimeter (with scene tape), according to the procedures given in the lesson.
5. Group members will perform a visual perimeter search.
6. The leader will design a plan of action, assign positions and initiate a search.
7. Group members assigned to the search will take up their designated positions.
8. The leader will use a megaphone to make three loud verbal calls to determine if a victim can hear and respond. The leader may say, "This is the rescue team! Respond in a loud voice or knock on a surface with an object 3 times!"
9. Members assigned to the search will listen for a response from the victim and will point in the direction of the sound.
10. Based on the victim's response, the team members will use the "search area diagram" and will draw a straight line from their location to the precise spot of the victim inside the structure.
11. After completing the above, the group leader will use all the team members' diagrams to determine (by triangulation) a probable area where the trapped victim is located.
12. The group then needs to draw the appropriate victim location markings on the structure.
13. Group 1 proceeds to Phase 3.
14. Group 2 proceeds to Phase 2.

## Phase 3

### **Penetration, Rubble Removal, Shoring, Lifting and Extricating** Instructor Activity

1. Give the group leader the following information:
  - Operational standards
  - Area to be searched
  - Off-limit or restricted areas
  - Restrictions during the operation
  - There is a potential victim in the collapsed structure
  - Walking around the props is not permitted
  - That there is only one entry and egress point for the props (initial entry point)
  - Review applicable safety rules
2. The leader then assigns responsibilities to the group members, which includes movement of equipment, tools and accessories, logistics and staging areas. The leader then officially initiates the operation.
3. The instructor indicates the entry point (prop wall 12) to the group leader. The instructor will answer any questions about the scenario.
4. The group proceeds to penetrate the wall using the appropriate steps learned in Lesson 8.
5. Group will encounter a window-door shore scenario on the #2 and #6 props where they will build an appropriate shore as learned in Lesson 9.
6. A “dead” victim will be encountered on the #2 and #6 props.
7. On the other side of the shore, the victim will have to be removed to continue access.
8. After penetrating the last prop, they will encounter a victim trapped underneath the concrete slab. Using the techniques learned in Lesson 10, they would properly extricate the victim.
9. The “patient” will present with signs and symptoms of crush/compartment syndrome (extremely compressed under the slab for 6 hours or more, elevated heart rate, tachypnic, numbness of the affected extremity). The participants will identify the medical problem and properly transport the patient out of the props.

## Conducting the Operation

- Instructors must ensure that the operation is conducted in accordance with the techniques taught and that the participants comply with all safety rules. Additionally, remember that in Props #2 and #6 they must build window/door shores. They will also find will find a “dead victim” in these two props (one for each group) and the group members will need to make a choice as to remove it or leave it, and this must be supervised by an instructor. The breaking or removal of the slabs or columns placed in Props #4 and #8 must likewise be supervised.
- Once the group arrives at the final prop where the patient is located, the rescuers must be supervised on their techniques for lifting, immobilisation and extrication of the patient. The must also be supervised on their choices regarding the patient’s signs and symptoms and pre-hospital treatment. The patient must be extricated through the modules to the point of entry applying the necessary techniques.
- An instructor must be present at all times inside the props to evaluate the participants’ performance and application of techniques. The same applies to the cutting table when it is being utilised, as well as the moving and use of tools, equipment and accessories.
- A safety officer (instructor) will be assigned and must be present at all times during the entire operation.
- **Required tools and equipment: all items used through the CSSR Course.**

## Objectives:

Each group will demonstrate the proper procedure of tying the basic knots used in the course in the allotted time (45 minutes). The participants will follow the instructor’s guidance.

## Tools, Equipment and Accessories

All items used through the CSSR Course.

## Required Materials:

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	Instructor Activity
• Simulation modules/props (8)	
• All material “left over” from the course	
• Adult mannequins (4)	
• Rolls of 2.5 mm or 5 mm cord (2)	
• 4 x 4 metre plastic tarps (10)	
• Wood braces 5 cm x 10 cm x 3 m (12)	
• GI wires	
• Ply boards	

## Instructors:

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All Instructors

## Note For The Instructors:

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The instructors should follow the following guidelines:

1. If the participants do not know what to do, throw questions to guide them.
2. If the participants do it in the wrong manner, correct them.
3. If the participants do it in unsafe manner, stop them.

## Total Time:

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9 hours

## Guide to Preparing the Props and Practice Field for Phases 3

### Purpose

To guide for CSSR instructors on how to prepare the props and practice field to simulate a real structural collapse for use in Phase 3 of the Final Practical Exercise.

### Preparation

- Place all the debris that was created by the previous exercises inside the props. If the material is insufficient, gather additional construction material from elsewhere in order to create enough of obstacles that the participants will be obligated to remove rubble to move from one prop to the next.
- Prepare the wooden wall in Props #2 and #6 to build a window/door shore by cutting a suitable space to simulate a window. If necessary, build a frame around the opening.
- Place one mannequin (dead victim) inside props #2 and #6. Attach a tag to the mannequin indicating status.
- Place one mannequin (live victim) with the legs trapped up to the thighs at the end of each line of props. Attach a label indicating vital signs consistent with crush syndrome.
- Cut in half the 2 concrete slabs that are located in the middle of the two rows of props and place each half inside props #4 and #8. The cutting can be accomplished after Lesson 10 as part of a competitive exercise amongst the four groups.
- Place metal or wood supports between the props in order to support the tarps that will be covering them, so as to form a tunnel (see pictures in Coordinator's Guide).
- Around the last prop, build a structure using metal or wood beams that will allow the area around the slab with the trapped victim to be covered by the tarp and create a continuous space with the props. The height of this structure should be no more than 1.2 metres high.
- Secure the tarps with rope or other fastening material to prevent wind and/or rain from collapsing or blowing them away. It is important that the side walls of these covering structures be completely covered to prevent seeing into or out of the props during the exercise.

## **Required Materials:**

	<b>Instructor Activity</b>
• 8 simulation props	
• Rolls of rope, 2.5 mm or 5 mm (2)	
• Plastic or cloth tarps, 4 m x 4 m (10)	
• Lumber, 5 cm x 10 cm X 3 m (12)	
• Mannequins (4)	

## **Instructors:**

All instructors must be present

## Search Area/Site Sketch

Team # \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Location/GPS \_\_\_\_\_ Page: \_\_\_\_\_ of \_\_\_\_\_

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									
6									
7									
8									
9									

### Legend / Required Symbols

- North arrow
- Scale
- Sides 1, 2, 3 and 4
- Access points:  
1<sup>st</sup> → 2<sup>nd</sup> →

Chemical 

Structural 

Environmental 

Potential victim 

Confirmed victim 

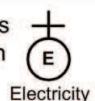
Dead victim 

### Resources Utilized

Physical/ Hailing  Acoustic   
 Optical   
 Canine  Other

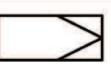
Service Symbols  
 Electricity    Gas    Water

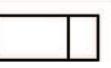
Cut services: When services are cut, a cross is placed on top of the symbol.

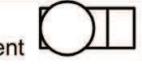
 Electricity

Command Post 

Staging Area 

Emergency vehicles 

Trucks 

Heavy equipment 

## Final Practical Exercise — Scenario

### FIRST MESSAGE

Time 00:34

Instructor Activity

- At 00:23 September 8, 2012, a strong earthquake was reported in Balunjab Province and surrounding areas.
- Initial reports indicate a 7.4 magnitude quake on the Richter scale that lasted approximately two minutes.
- The epicentre was located in the Larachi, 20 kilometres southwest of the city of Rawalmabad.
- Most communication lines have been disrupted.
- Several residents of Quettur managed to communicate with the National Disaster Risk Reduction Office using cellular phones. They reported several buildings in the area have collapsed. Communication was lost after that point.
- Please remain alert for CSSR Task Force activation.

**NOTE:** *The above names of places / organizations are fictitious and may be changed accordingly by instructors.*

## Final Practical Exercise — Scenario

### SECOND MESSAGE

Time 02:05

A commercial radio has broadcast the following information:

- The greatest damage occurred in the area surrounding Dadeland Mall, where some buildings have fully collapsed and others are severely damaged.
- The road from the city to the airport is blocked by several landslides.
- A fuel truck in transit on Route 826 was overturned and caught fire. Two fire units were dispatched to control the fire; however, they have not been able to reach the scene due to landslides blocking the road.
- Dr. Zhodar is in an emergency meeting with her staff at the National Emergency Operations Centre to gather data and prepare a report for the President.
- She has ordered the CSSR Task Force to be ready for departure from Fire Headquarters at 06:00.

**NOTE:** *The above names of persons / places / organizations are fictitious and may be changed accordingly by instructors.*

## Final Practical Exercise — Scenario

### THIRD MESSAGE

Time 06:20

**Instructor Activity**

- Two trucks have been obtained from the military and they will be arriving at Fire Headquarters at 07:30.
- A list of all personnel being dispatched to the Dadeland Mall area is required, including their identification and telephone numbers.
- A complete list is required of all boxes and equipment, including weights, which will be transported on the trucks.
- The weather in Balunjab is cloudy with a temperature of 34°C. Rain is expected around 15:00. Relative humidity is 87 percent.

**NOTE:** *The above names of places / organizations are fictitious and may be changed accordingly by instructors.*

## Final Practical Exercise — Scenario

# FINAL UPDATE

Due to the large number of collapsed structures, the National Emergency Operations Centre has selected the most critical ones to work them in an orderly manner.

- In the Dadeland Mall area, the Ramada Inn Hotel and part of the Central Metro station had collapsed.
- Due to the time of the quake, the Task Force will work on the Ramada Inn Hotel. The Hotel is 7 floors high and has 114 rooms.
- At the time of the incident, 98 rooms were occupied. The structure is made of concrete and the elevators are in the centre area of the building.
- The ground floor and first floor contain four businesses (stores), one of which was a drug store (pharmacy).
- The hotel kitchen and restaurant were on the ground floor. The kitchen was equipped with gas piping and a storage tank in the back of the building.
- Three cranes are being brought in from a construction site in Coconut Grove.
- The National Guard has assigned 20 soldiers to cordon the area and prevent looting.
- More than 100 looters have broken entered the cordoned area and are stealing merchandise in the collapse area of the Ramada Inn Hotel.
- Two squads from Lajhang are attempting to extricate a woman whose screams can be heard under a concrete slab from the third floor.
- There are several dead bodies on one side of the building.
- The Hotel Maintenance Manager arrives at the site to offer any assistance required.
- The UK Ambassador has called to obtain information on the whereabouts of four professional UK cricket players that were guests at the Ramada Inn.
- The President has declared a national emergency in Balunjab and has requested international aid.
- The President has offered \$250,000 in initial assistance and is coordinating with the National Disaster Risk Reduction Office to send two Search and Rescue Task Forces.
- The first task force from Faisalagodha will be arriving at the airport today at 17:30. The second, from Shidadu, will be arriving at 23:35.

**NOTE:** The above names of persons / places / organizations are fictitious and may be changed accordingly by instructors.

# FINAL PRACTICAL EVALUATION

## Demonstration and Practice Checklist

Group #:	Name/ID:	Station:
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	Team Activity*	Complete	Incomplete
1	Squad organised CSSR functions among members at the start of the operation.		
2	<b>Gathered information based on the initial description and image provided in Phase 1.</b>		
3	<b>Developed an action plan to conduct search, based on site sketch.</b>		
4	<b>Located the victim using the hailing method.</b>		
5	Placed the appropriate mark to indicate the presence of a potential live victim.		
6	<b>Used the proper techniques to break and breach walls.</b>		
7	<b>Built window/door shoring properly inside the module.</b>		
8	<b>Correctly performed initial assessment of patient and immobilised him on backboard.</b>		
9	<b>Extricated the patient, using the techniques for lifting and stabilising loads.</b>		
10	<b>Called out all required safety rules while carrying out their tasks.</b>		
11	Work was conducted as a team, with a good distribution of tasks.		
12	Submit demobilisation form		

\*Activities in bold type require satisfactory performance for a passing grade on this evaluation.

<b>Observations:</b>		
<b>Pass:</b>		<b>Instructor:</b>
<b>Fail:</b>		<b>Course Location:</b> <b>Date:</b>
<b>Instructor's Signature:</b>		

# TEAM GRADE SHEET

TEAM NUMBER	START TIME	END TIME
<b>TEAM MEMBER NAMES</b>		
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
<b>NOTES</b>		
<b>INSTRUCTOR SIGNATURE</b>		<b>TEAM LEADER SIGNATURE</b>
<b>DATE</b>	<b>SCORE</b>	<b>CIRCLE ONE</b> <b>PASS</b> <b>FAIL</b>

## PHASE I

### Team Questionnaire

This exercise is a simulation of a collapsed structure incident. Based on the image with which you are presented, you will need to answer the questions and complete the steps outline in this questionnaire. You will have 20 minutes to complete this questionnaire. Once your team has completed it or you have reached the time limit, turn it in to the instructors.

**Recommendation:** Be objective, brief and technical in your responses.

- 1. Draw a flowchart in the space below showing how your team organized and distributed specific CSSR tasks upon arriving at the scene.**

2. List five safety precautions that must be implemented upon arriving at the scene and before starting operations in the collapsed structure.

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3. Calculate a preliminary estimate of the number of potential victims trapped in the structure. Explain how you made your calculations.

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4. Using the Site Sketch form included in this questionnaire, draw a diagram of the collapsed structure scene.

5. Identify the type of structure being analysed in this exercise (reinforced concrete, wood, brick, etc.).

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6. List the additional resources (personnel and material) that you think should be requested for this scene during the next eight hours.

7. Identify the potential risks that your personnel may encounter once rescue operations are initiated in the collapsed structure.

8. Using the Site Sketch form on the following page, draw a correct set-up for cordoning off the area and marking buildings before the search begins.

# FINAL PRACTICAL EVALUATION

## Demonstration and Practice Checklist

<b>Group #:</b>	<b>Station:</b>
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	<b>Team Activity*</b>	<b>Complete</b>	<b>Incomplete</b>
1	Squad organised CSSR functions among members at the start of the operation.		
2	<b>Gathered information based on the initial description and image provided in Phase 1.</b>		
3	<b>Developed an action plan to conduct search, based on site sketch.</b>		
4	<b>Located the victim using the hailing method.</b>		
5	Placed the appropriate mark to indicate the presence of a potential live victim.		
6	<b>Used the proper techniques to break and breach walls.</b>		
7	<b>Built window/door shoring properly inside the module.</b>		
8	<b>Correctly performed initial assessment of patient and immobilised him on backboard.</b>		
9	<b>Extricated the patient, using the techniques for lifting and stabilising loads.</b>		
10	<b>Called out all required safety rules while carrying out their tasks.</b>		
11	Work was conducted as a team, with a good distribution of tasks.		

\*Activities in bold type require satisfactory performance for a passing grade on this evaluation.

<b>Observations:</b>		
<b>Pass:</b>		<b>Instructor:</b>
<b>Fail:</b>		<b>Course Location:</b> <b>Date:</b>
<b>Instructor's Signature:</b>		

