

LESSON

13

FINAL PRACTICAL EVALUATION

Practical- 23 Periods

Phase 1



Phase 2



Phase 3



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.

2

Performance Objectives

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

- 2.1 Describe 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.**

Notes

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

3.1 Phase 1

- Slide projector with replacement bulb
- 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

- | | |
|--|--|
| • Four (4) pry bars | • Two (2) hand drills |
| • Two (2) crowbars | • Four (4) shovels |
| • Four (4) sledgehammer | • Four (4) picks |
| • Two (2) flat chisels | • Two (2) machetes |
| • Two (2) diamond-point chisels | • Four (4) brick hammers |
| • Two (2) chipping hammers | • Two (2) orange spray paint cans |
| • Two (2) axes | • Two (2) sisal ropes, 30 metres |
| • Two (2) hatchets | • Four (4) torches (flashlights) |
| • Four (4) saws | • Two (2) tarps, 4 x 4 metres |
| • Four (4) hacksaws with 3 replacement blades for each (12 blades total) | • Two (2) measuring tapes, 3 metres |
| • Two (2) vise grips | • Thirty-two (32) wood blocks, 10x10x45 cm |
| • Two (2) pairs of pliers | • Two (2) wood beams, 10x10 cm x 3 m |
| • Two (2) pipe wrenches | • Seven (7) wood beams, 10x10 cm x 5 m |
| • Two (2) adjustable (crescent wrenches) | • Eight (8) wood beams, 5x10 cm x 2.5 m |
| • Two (2) slotted screwdrivers | |
| • Two (2) Philips screwdrivers | |
| • Two (2) files | |

3

Tools, Equipment and Supplies (Cont.)

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

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.

Notes

**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 canine teams or other alternative search methods.
13. Locate the possible trapped victim with minimum margin of error.

Notes

**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.

Notes

TEAM GRADE SHEET

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

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PHASE 1

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.

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

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.).

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.

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:
1st → 2nd →

Chemical

Structural

Environmental

Potential victim

Confirmed victim

Dead victim

Resources Utilized

Physical/ Acoustic ☐
Hailing ☐ 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 EVALUATION

Demonstration and Practice Checklist

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

Observations:			
Pass:		Instructor:	
Fail:		Course Location:	Date:
		Instructor's Signature:	

[illegible]