ROYAL CANADIAN ARMY CADETS

SILVER STAR

INSTRUCTIONAL GUIDE

SECTION 2

EO M321.02 – CONSTRUCT COMPONENTS OF A BIVOUAC SITE

Total Time: 90 min

PREPARATION

PRE-LESSON INSTRUCTIONS

Resources needed for the delivery of this lesson are listed in the lesson specification located in A-CR-CCP-703/PG-001, Chapter 4. Specific uses for said resources are identified throughout the instructional guide within the TP for which they are required.

Review the lesson content and become familiar with the material prior to delivering the lesson.

Photocopy Annex A for each cadet.

PRE-LESSON ASSIGNMENT

N/A.

APPROACH

An interactive lecture was chosen for TP 1 to orient the cadets to the construction of a bivouac site.

Demonstration and performance was chosen for TPs 2 and 3 as it allows the instructor to explain and demonstrate constructing components of a bivouac site while providing an opportunity for the cadet to practice the skill under supervision.

INTRODUCTION

REVIEW

N/A.

OBJECTIVES

By the end of this lesson the cadet shall have constructed the components of a bivouac site.

IMPORTANCE

It is important for cadets to know as a team leader how to construct components of a bivouac site because on a weekend bivouac FTX, team leaders will be given small leadership roles to construct specific components of a bivouac site.

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Teaching point 1 **Discuss the Components of a Bivouac Site**

Time: 10 min Method: Interactive Lecture



Hand out with the sample bivouac site diagram and identify each feature as it is discussed. Cadets should already know components however may need some review.

COMPONENTS OF A BIVOUAC FEATURES

There are a variety of components which make up a bivouac site. Each component is characterized by its features, required building materials and location requirements.



Bivouac site components are listed below with a short description of the component followed by a list of required building materials and location requirements.

Headquarters (HQ). This feature acts as the central hub of the bivouac site. Most of the administration is conducted here. The HQ is the location of the Officer in Charge (OIC) and supporting staff. Communications and safety equipment may be located here as well.

The HQ can be a designated location or an actual shelter. Commonly the HQ is constructed with modular tentage. The size of the tent can range from one section to many sections depending on the field training exercise (FTX) requirements.

Required Building Materials	Location Requirements
• complete section of modular tentage including front and rear panels • grounding stakes • tables • chairs/benches • duty officer station • duty officer cot and sleeping area	• centrally located • flat ground • easily accessible

Supply. The supply is the point where all equipment not in use is held. This location has a designated Quartermaster (senior cadet, supply officer, etc). This feature is often situated close to the HQ or is located within the HQ. It is considered a secure location and is out of bounds to all except designated personnel.

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Required Building Materials	Location Requirements
• complete section of modular tentage including front and rear panels • grounding stakes • table • chair(s)	• close to the HQ • flat ground

First Aid Point. The first aid point is always placed at the centre of the bivouac site. Depending on the size of the bivouac site it may be reasonable to set up many points to quickly provide access to first aid equipment.



A primary first aid station may be set up to deal with more serious injuries. This location can be inside erected modular tentage and may contain a field first aid kit, spinal board, neck brace, stretcher, wool blankets and a cot.

Materials that make up a first aid point are:

Required Building Materials	Location Requirements
• stretcher • emergency first aid kit • fire blanket x 2 • spinal board • neck brace • table • chairs	• centre of bivouac site

Fire Point. This feature is used to combat any fires that arise. The fire point, like the first aid point, is a first response point and must be centralized and accessible in an emergency. Fire points should be set up near the sleeping areas, cooking areas, and Petroleum, Oils and Liquids (POL) point. If the bivouac site is large and spread out, additional fire points shall be set up.

The fire point should contain Class A fire extinguishers, with the exception of the POL fire point where a Class B fire extinguisher should be available. Materials that make up a fire point are:

Required Building Materials	Location Requirements
• fire broom • shovel • 13.7 L (3 gallon) bucket filled with sand • fire extinguisher • fire point beacon • fire siren	• centralized and easily accessible • more than one may be required

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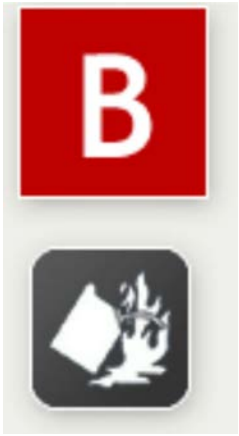
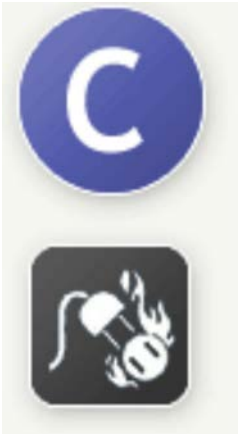
It is not uncommon to be using areas that require a set amount of fire points with specific fire equipment. Be sure to check with the authority of the property being used.

There may be specific guidelines or regulations that must be followed with regards to fire safety equipment. These regulations are very common on Canadian Forces Bases.

Fire extinguishers labelled to the class of fire they can extinguish. The types of extinguishers are:

			
Class A, Ordinary Combustibles: • trash • wood • paper	Class B, Flammable Liquids: • oils • grease • tar • gasoline • paint thinners	Class C, Electricity: • live electrical equipment	Class D, Combustible Metals: • magnesium • titanium

POL Point. The POL point is a designated area for the storage of fuels, flammable and dangerous liquids. This area is to be clearly marked (white mine tape works well). A drip pan must be present to catch any spills during refuelling. Materials that make up a POL point are:

Required Building Materials	Location Requirements
• mine tape • drip pan • marker tape • spill kit • identifying beacon	• 100 m from bivouac site • flat ground • clear and open area • no overhanging branches • minimum 200 m from natural water source

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In/Out Route for a Safety Vehicle. The feature is used to control vehicle traffic. It assists in keeping the site safe, and prevents undue wear and tear on the environment. An in/out route sign is all that is required for the materials for this feature.

Required Building Materials	Location Requirements
• signage	• route should not travel through active areas

Parking Area. This area is for parking exercise support vehicles and should be clearly identified. The parking area will be equipped with drip pans that are placed under the engine of every vehicle.

Required Building Materials	Location Requirements
• drip pans • mine tape • parking sign	• clear area • room for additional vehicles to park • room to turn a vehicle around

Form-Up Point. This point is a designated large area where personnel will gather when called to muster or during an emergency. Often times it is used for mass briefings. There are no materials required for this area, however it is a place that is verbally identified to the group during the safety briefing.

Required Building Materials	Location Requirements
• N/A	• sheltered/unsheltered clear open area

Water Point. This location is for the storage and drawing of drinking water. It is often placed in a centralized location. This can also be a natural water source. There are no materials required for this area. It is a place that is verbally identified to the group during the safety briefing.

Required Building Materials	Location Requirements
• water jerry cans	• centralized area • easily accessible if natural source is used

Ablutions Area. This area is the designated washroom. Bivouac sites will have portable chemical toilets or designated facilities to use. This area will be located downwind at least 60 m (200 feet) away from the sleeping, eating and water areas. There are no materials required for this area, however it is a place that is verbally identified to the entire group upon arriving at the bivouac site.

Required Building Materials	Location Requirements
• portable chemical toilets or designated facilities	• downwind at least 60 m (200 feet) away from sleeping, eating and water areas.

Cooking Area. This area is designated for the preparation of food. The best location is a durable surface such as a flat rock or sandy area. The cooking area should be located no more than 10 m away from the eating area to prevent people from milling around hot stoves and boiling water. This area has no specific required materials to make a cooking site however it is verbally identified to the entire group upon arriving at the bivouac site.

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Required Building Materials	Location Requirements
• N/A	• durable surface (flat rock or sandy area) • open area, no significant overhanging trees or branches • close to the eating area

Eating Area. This is a central point for all foods to be consumed. This will assist in the control of waste and garbage that is a by-product of food consumption, especially in areas with high animal activity. There are no materials required for this area, however it is verbally identified to the group upon arriving at the bivouac site.

Required Building Materials	Location Requirements
• N/A	• sheltered area

Garbage Point. This is the central point for the collection and storage of garbage. It is located away from the main bivouac site and is animal proof (garbage is stored in garbage bins, tree hangs or vehicles). Materials and equipment that make up the garbage point are:

Required Building Materials	Location Requirements
• garbage cans • dumpster • garbage hang	• 100 m (328 feet) away from the bivouac site • animal proof

Sleeping Areas. The sleeping areas should be placed upwind of the cooking area, on flat ground. The areas for sleeping will be divided into male and female lines and spread out. Female and male markers can be placed to identify tent location. There are no specific materials required for this area. Sleeping areas are verbally identified to the group upon arriving at the bivouac site.

Required Building Materials	Location Requirements
• female and male zone identification markers	• flat ground • clear of major debris • female and male separation

CONFIRMATION OF TEACHING POINT 1

QUESTIONS

Q1. What are five components of the bivouac site?

Q2. Where should a first aid point be set up?

Q3. What are the location requirements for a POL point?

ANTICIPATED ANSWERS

A1. Any of the following five components will suffice:

- headquarters,

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- supply,
- first aid point,
- fire point,
- POL point,
- in/out route for a safety vehicle,
- parking area,
- form-up point,
- water point,
- ablutions area,
- cooking area,
- eating area,
- garbage point, and
- sleeping areas (male and female).

A2. The first aid point is always placed at the centre of the bivouac site.

A3. Location requirements for a POL point are:

- 100 m from bivouac site,
- on a flat surface,
- in a clear and open area,
- no overhanging branches, and
- 200 m from natural water source.

Teaching point 2 **Explain, Demonstrate and Have the Cadets Establish Components of a Bivouac Site**

Time: 15 min Method: Demonstration and Performance



Cadets will be expected to establish specific components of a bivouac site in this lesson.

Explanations and demonstrations may be limited as most cadets will have a working knowledge of each component through their previous experiences on FTXs and from the descriptions in TP1.

Explain and demonstrate where necessary how to establish a component of a bivouac site.

ACTIVITY

OBJECTIVE

The objective of this activity is to have the cadets establish and mark components of a bivouac site.

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RESOURCES

- Sample bivouac site diagram,
- Mine tape,
- White bristol board,
- Markers,
- Twine, and
- Pocket knife (one per group).

ACTIVITY LAYOUT

Cadets will be responsible to lay out the components of a bivouac site.

ACTIVITY INSTRUCTIONS

1. Divide the cadets into groups of no more than five.
2. Assign each group an equal number of bivouac components to establish from the following list:
    a. headquarters,
    b. supply,
    c. first aid point,
    d. fire point,
    e. POL point,
    f. in/out route for a safety vehicle,
    g. parking area,
    h. form-up point,
    i. water point,
    j. ablutions area,
    k. cooking area,
    l. eating area,
    m. garbage point, and
    n. sleeping areas (male and female).
3. To establish a component of bivouac site, have the cadets label each point using the bristol board and markers.
4. Give the groups a tour of the identified locations.
5. Five minutes will be used for a group tour of the identified locations.
6. Debrief the group about each component.

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SAFETY

Cadets will be exploring the area that is expected to be the bivouac site. Set boundaries for the cadets to use as the bivouac site.

CONFIRMATION OF TEACHING POINT 2

The cadets participation in the activity will serve as the confirmation of this TP.

Teaching point 3 **Explain, Demonstrate and Have the Cadets Construct Components of a Bivouac Site**

Time: 60 min Method: Demonstration and Performance



Cadets will be expected to construct specific components of a bivouac site in this lesson.

Most cadets will have a working knowledge of each component through their previous experiences on FTXs.

Explain and demonstrate how to construct each component where necessary.

The set-up of a modular section may be the most difficult task to the cadets.

Take 20 minutes and demonstrate how to set up a modular section.

ACTIVITY

OBJECTIVE

The objective of this activity is to have the cadets construct specific components of a bivouac site.

RESOURCES

Resources for the following bivouac site components are listed in TP1:

- headquarters,
- supply,
- first aid point,
- fire point, and
- POL point.

ACTIVITY LAYOUT

Cadets will be required to physically construct the following components:

- headquarters,
- supply,
- first aid point,
- fire point, and

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- POL point.

In the last activity, each component should have been previously assigned a position within the bivouac site. Cadets will position their component at its designated location.

ACTIVITY INSTRUCTIONS

1. Divide the cadets into equal groups of no more than five.
2. Give a 20 minute demonstration on how to set up a section of modular tent.
3. Assign each group one component to construct.
4. Give each group 30 minutes to construct their component.
5. Ten minutes will be used for a group tour of the constructed compnents.
6. Debrief the group about each component.

SAFETY

CONFIRMATION OF TEACHING POINT 3

The cadets participation in the activity will serve as the confirmation of this TP.

END OF LESSON CONFIRMATION

The cadets participation in constructing components of a bivouac site will serve as the confirmation of this lesson.

CONCLUSION

HOMEWORK/READING/PRACTICE

N/A.

METHOD OF EVALUATION

N/A.

CLOSING STATEMENT

Team leaders who have been assigned to construct components of a bivouac site will be expected to have knowledge of a bivouac site layout and its components. Practicing how to situate the appropriate bivouac site component will prepare team leaders to lead a group of junior cadets in a similar task.

INSTRUCTOR NOTES/REMARKS

Additional instructors may be required to assist the construction of each bivouac component in TP 3.

The cadet shall participate in the activity and where possible perform the duties of a team leader.

The team leader(s) will be debriefed on their performance where applicable as part of PO 303 (Perform the Role of a Team Leader, Chapter 3).

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REFERENCES

A2-036 A-CR-CCP-121/PT-001 Director Cadets 3. (2000). *Royal Canadian Army Cadet Reference Book*. Ottawa, ON: Department of National Defence.

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