EO M221.07 – USE SECTION EQUIPMENT

1. **Performance**: Use Section Equipment
2. **Conditions**:
   a. Given:
      (1) fuelled two-burner naphtha stove;
      (2) fuelled dual-mantle naphtha lantern;
      (3) 4-lb axe (36-inch handle);
      (4) 24-inch bow saw;
      (5) supervision; and
      (6) assistance as required.
   b. Denied: N/A.
   c. Environmental: Field setting during an outdoor weekend bivouac FTX.
3. **Standard**: In accordance with specified references, the cadet shall:
   a. light and extinguish a two-burner stove;
   b. light and extinguish a dual-mantle lantern; and
   c. safely handle field tools (axe and bow saw).
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Identify the characteristics of the two-burner stove, to include: a. operational temperature; b. fuel type; c. parts and accessories; and d. precautions.	Interactive Lecture	5 min	See Remarks, para. 11e.
TP2	Explain, demonstrate and have cadets practice operating the two-burner stove, to include: a. assembling; b. lighting and extinguishing, to include: 1. pumping the fuel tank; 2. lighting the main burner; 3. lighting the auxiliary burner; and 4. extinguishing the burner; c. storing after use.	Demonstration and Performance	15 min	See Remarks, para. 11e.

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TP	Description	Method	Time	Refs
TP3	Identify the characteristics of the dual-mantle lantern, to include: a. parts and accessories; and b. precautions.	Interactive Lecture	5 min	See Remarks, para. 11e.
TP4	Explain, demonstrate and have the cadets practice operating the dual-mantle lantern, to include: a. assembling; b. lighting and extinguishing, to include: 1. pumping the fuel tank; 2. lighting the lantern; 3. extinguishing the lantern; and c. storing after use.	Demonstration and Performance	10 min	See Remarks, para. 11e.
TP5	Explain, demonstrate and have the cadets practice safely handling field tools, to include: a. an axe, by: 1. determining sharpness; 2. holding; 3. identifying the chopping angle; and 4. identifying direction of fall; and b. a bow saw, by: 1. holding and cutting a log; and 2. identifying direction of fall.	Demonstration and Performance	15 min	C0–111 (pp. 496 to 500)

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	10 min
c.	Demonstration and Performance:	40 min
d.	Total:	60 min

6. **Substantiation**:

a. An interactive lecture was chosen for TP1 and TP3 to introduce the safe handling of section equipment when participating in a weekend bivouac FTX.

b. Demonstration and performance was chosen for TP2, TP4 and TP5 as it allows the instructor to explain and demonstrate the uses of section equipment while providing an opportunity for the cadets to practice operating this equipment under supervision.

7. **References**:

a. A2-010 B-GG-302-002/FP-001 FMC (1982). *Basic Cold Weather Training: Arctic and Sub-Arctic Operations* (Vol 2). Ottawa, ON: Department of National Defence.

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b. C0-111 (ISBN 978-0-9740820-2-8) Tawrell, P. (2006). *Camping and Wilderness Survival: The Ultimate Outdoors Book* (2nd ed.). Lebanon, NH: Leonard Paul Tawrell.

8. **Training Aids**:

   a. Fuelled two-burner naphtha stove;

   b. Fuelled dual-mantle naphtha lantern;

   c. Mantles;

   d. 4-lb axe (36-inch handle); and

   e. 24-inch bow saw.

9. **Learning Aids**:

   a. Fuelled two-burner naphtha stove;

   b. Fuelled dual-mantle naphtha lantern;

   c. Mantles;

   d. 4-lb axe (36-inch handle); and

   e. 24-inch bow saw.

10. **Test Details**: N/A.

11. **Remarks**:

   a. Naphtha appliances are preferred due to their versatility to operate in all temperatures.

   b. Each cadet should be given the opportunity to practice lighting and extinguishing a stove and lantern during the weekend bivouac FTX.

   c. Additional staff may be required to supervise cadets lighting stoves and lanterns.

   d. Additional supervision is imperative when cadets are learning how to use an axe.

   e. Instructors should refer to the owner's manual for the operating instructions of stoves and lanterns.

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