EO M490.02 – OPERATE A STOVE AND A LANTERN

1. **Performance**: Operate a Stove and a Lantern

2. **Conditions**:

   a. Given:

      (1) Two-burner naphtha stove,

      (2) Dual-mantle naphtha lantern,

      (3) Lantern storage carrier,

      (4) Mantles,

      (5) Naphtha,

      (6) Funnel,

      (7) Drip pan,

      (8) Matches,

      (9) Needle-nose pliers,

      (10) Supervision, and

      (11) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Field setting.

3. **Standard**: The cadet shall operate a stove and a lantern, to include:

   a. filling;

   b. pressurizing;

   c. lighting;

   d. extinguishing;

   e. draining;

   f. cleaning;

   g. performing minor maintenance; and

   h. storing.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Identify the characteristics of a two-burner naphtha stove, to include: a. operational temperature, b. fuel type, and c. parts and accessories.	Interactive Lecture	10 min	See Remarks, para 11b.

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TP	Description	Method	Time	Refs
TP2	Identify the characteristics of a dual-mantle naphtha lantern, to include: a. parts and accessories, and b. precautions.	Interactive Lecture	5 min	See Remarks, para 11b.
TP3	Explain, demonstrate and have the cadets fill and drain a stove and a lantern, utilizing a drip pan. Note: A spill response kit should be on hand when fuelling and emptying stoves and lanterns.	Demonstration and Performance	15 min	See Remarks, para 11b.
TP4	Explain, demonstrate and have the cadets operate a two-burner naphtha stove, to include: a. assembling; b. lighting and extinguishing, to include: 1. pressurizing the fuel tank; 2. lighting the master burner; 3. lighting the auxiliary burner; and 4. extinguishing the burner; and c. disassembling after use.	Demonstration and Performance	15 min	See Remarks, para 11b.
TP5	Explain, demonstrate and have the cadets operate a dual-mantle naphtha lantern, to include: a. assembling; b. lighting and extinguishing, to include: 1. pressurizing the fuel tank, 2. lighting the lantern, and 3. extinguishing the lantern; and c. storing after use.	Demonstration and Performance	20 min	See Remarks, para 11b.
TP6	Explain, demonstrate and have the cadets perform minor maintenance on a stove and a lantern, to include: a. cleaning the stove, b. cleaning the lantern, c. replacing a mantle; and d. inspecting the pump assembly.	Demonstration and Performance	15 min	See Remarks, para 11b.

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	15 min
c.	Demonstration and Performance:	65 min
d.	Total:	90 min

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6. **Substantiation**:

    a. An interactive lecture was chosen for TPs 1 and 2 to introduce to the cadets the characteristics of the stove and of the lantern.

    b. A demonstration and performance was chosen for TPs 3–6 as it allows the instructor to explain and demonstrate how to operate a stove and lantern while providing an opportunity for the cadets to practice the skill under supervision.

7. **References**: Manuals for stove and lantern types being used.

8. **Training Aids**:

    a. Two-burner naphtha stove,

    b. Dual-mantle naphtha lantern,

    c. Lantern storage carrier,

    d. Mantles,

    e. Naphtha,

    f. Fire extinguisher,

    g. Funnel,

    h. Drip pan,

    i. Matches,

    j. Needle-nose pliers,

    k. Spill response kit,

    l. Manual for stove, and

    m. Manual for lantern.

9. **Learning Aids**:

    a. Two-burner naphtha stove,

    b. Dual-mantle naphtha lantern,

    c. Lantern storage carrier,

    d. Mantles,

    e. Naphtha,

    f. Funnel,

    g. Drip pan,

    h. Matches, and

    i. Needle-nose pliers.

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10. **Test Details**: This EO is assessed IAW Chapter 3, Annex B, 490 PC.

11. **Remarks**:

    a. The spill response kit will be placed at the fuelling area.

    b. Refer to the manuals for all operations and maintenance of the two-burner naphtha stove and dual-mantle naphtha lantern.

    c. A fire extinguisher will be at each site where stoves and lanterns are being lit.

    d. When cleaning the stove, the fuel tank is to be wiped with fresh naphtha. Protective gloves and clothing are to be worn when completing this task. Acceptable materials for gloves are neoprene and nitrilee / viton. It is also recommended that safety glasses, splash goggles, or face shield be worn. Have eye water wash available.

    e. Cadets who are qualified Survival Instructor may assist with this instruction.

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