EO M190.06 – LIGHT, MAINTAIN AND EXTINGUISH A FIRE

1. **Performance**: Light, Maintain and Extinguish a Fire

2. **Conditions**:

   a. Given:

      (1) Flint and steel,

      (2) Magnifying glass,

      (3) Matches,

      (4) Battery,

      (5) Steel wool,

      (6) Saw,

      (7) Wood / fuel,

      (8) Water,

      (9) Fire extinguisher,

      (10) Shovel,

      (11) Supervision, and

      (12) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Aircrew survival exercise training area, with a low to moderate rating under the Canadian Wildland Fire Information System (CWFIS).

3. **Standard**: The cadet shall:

   a. adhere to all fire safety principles;

   b. light a fire, to include:

      (1) selecting an appropriate fire site;

      (2) preparing the tinder, kindling and fuel; and

      (3) applying a method for obtaining a spark;

   c. maintain a fire, to include:

      (1) applying an appropriate amount of wood;

      (2) ensuring appropriate amount of ventilation; and

      (3) ensuring the fire is contained to a controllable size; and

   d. extinguish a fire, to include:

      (1) smothering the fire with wet earth and / or water; and

      (2) filling in the fire pit.

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4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain principles of fire safety, to include: a. Forest Fire Danger Rating System, b. strong winds, and c. c. size of fire.	Interactive Lecture	5 min	C3–003 (Ch 10, p. 122)
TP2	Explain, demonstrate and have the cadets determine an appropriate site location and layout for a fire.	Demonstration and Performance	15 min	C3–003 (p. 122)
TP3	Identify the required elements of a fire.	Interactive Lecture	5 min	C3–002 (p. 266)
TP4	Describe types of fires, to include: a. warmth and comfort fires, b. signal fires, and c. cooking fires.	Interactive Lecture	15 min	C3–003 (pp. 122–135)
TP5	Explain, demonstrate and have the cadets practice lighting, maintaining and extinguishing fires.	Demonstration and Performance	45 min	C3–003 (pp. 122–130) C3–002 (pp. 268–275)

5. **Time**:

a.	Introduction / Conclusion:	5 min
b.	Interactive Lecture:	25 min
c.	Demonstration and Performance:	60 min
d.	Total:	90 min

6. **Substantiation**:

a. An interactive lecture was chosen for TPs 1, 3 and 4 to illustrate the application of rules, principles and concepts of fire safety, elements of fire and types of fires.

b. A demonstration and performance was chosen for TPs 2 and 5 as it allows the instructor to explain and demonstrate site location and layout, lighting, maintaining and extinguishing a fire.

7. **References**:

a. C3-002 ISBN 0-00-653140-7 Wiseman, J. (1999). *The SAS survival handbook*. Hammersmith, London: HarperCollins Publishers.

b. C3-003 ISBN 1-896713-00-9 Tawrell, P. (1996). *Camping and wilderness survival: The ultimate outdoors book*. Green Valley, ON: Author.

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8. **Training Aids**:

    a. Teepee fire,

    b. Signal fire,

    c. Log cabin fire,

    d. Flag tape,

    e. Candle,

    f. Matches,

    g. Glass (cup),

    h. Flint and steel,

    i. Magnifying glass,

    j. Batteries,

    k. Steel wool,

    l. Saw,

    m. Tinder,

    n. Kindling,

    o. Fuel,

    p. Water,

    q. Fire extinguishers, and

    r. Shovels.

9. **Learning Aids**:

    a. Matches,

    b. Flint and steel,

    c. Magnifying glass,

    d. Batteries,

    e. Steel wool,

    f. Tinder,

    g. Kindling,

    h. Water,

    i. Wood,

    j. Sand, and

    k. Shovels.

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10. **Test Details**.Nil.

11. **Remarks**.The directives outlined in CATO 11-08 *Environmental Protection and Stewardship* are to be adhered to during this training.

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