EO C224.02 – PREPARE A SIGNAL FIRE

1. **Performance**: Prepare a Signal Fire

2. **Conditions**:

   a. Given:

      (1) matches;

      (2) supervision; and

      (3) assistance as required.

   b. Denied: N/A.

   c. Environmental: Field setting or training area large enough to accommodate the entire group, with a low to moderate rating under the Canadian Forest Fire Danger Rating System (CFFDRS).

3. **Standard**: In accordance with specified references, and as a member of a group of no more than 15, the cadet shall prepare a signal fire by:

   a. determining signal type;

   b. identifying signal location; and

   c. preparing tinder, kindling, and fuel.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Determine types of emergency signal fires, to include: a. a three fire triangle pattern; b. a torch tree; and c. a luminous cone fire, **Note:** For demonstration purposes signal fires shall be previously constructed.	Interactive Lecture	5 min	C2-008 (pp. 504 to 507)
TP2	Identify a location to be seen from the air that should be: a. on elevated ground; b. highly visible; and c. located near a fuel source.	Interactive Lecture	5 min	C2-016 (p. 240)
TP3	Prepare a signal fire by: a. collecting combustible materials, such as: 1. kindling; 2. tinder; and 3. fuel; and b. constructing a signal fire.	Demonstration	20 min	C2-042 (pp. 194-195)

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TP	Description	Method	Time	Refs
TP4	As a member of a group of no more than 15, the cadet shall prepare a signal fire. The signal fire that exemplifies the best design will be lit by the instructor. **Note:** Fire safety equipment must be on hand during this activity. Additional supervision is required during the lighting of a signal fire by an instructor.	Practical Activity	20 min	

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	10 min
c.	Demonstration:	20 min
d.	Practical Activity:	20 min
e.	Total:	60 min

6. **Substantiation**:

   a. An interactive lecture was chosen for TP1 and TP2 to introduce and identify locations to prepare signal fires.

   b. Demonstration was chosen for TP3 as it allows the instructor to explain or demonstrate preparing a signal fire.

   c. A practical activity was chosen for TP4 as it is an interactive way to allow cadets to prepare a signal fire and witness the lighting of the signal fire in a safe and controlled environment.

7. **References**:

   a. C2-016 (ISBN 0-517-88783-5) Curtis, R. (1998). *The Backpacker's Field Manual: A Comprehensive Guide to Mastering Backcountry Skills*. New York, NY: Three Rivers Press.

   b. C2-042 (ISBN 0-7566-0946-1) Berger, K. (2005). *Backpacking & Hiking*. New York, NY: DK Publishing, Inc.

   c. C2-008 (ISBN 0-00-653140-7) Wiseman, J. (1999). *SAS Survival Handbook*. London: HarperCollins *Publishers*.

8. **Training Aids**:

   a. A three fire triangle;

   b. A torch tree; and

   c. A luminous cone fire.

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9. **Learning Aids**:

    a. Kindling;

    b. Tinder; and

    c. Fuel.

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

11. **Remarks**:

    a. For demonstration purposes in TP1, signal fires shall be previously constructed.

    b. The instructor will light the best prepared signal fire.

    c. Permission will be obtained for a signal fire from the local authorities (eg, local police, forestry service, and/or airport authority). The following information will be provided:

        (1) the organization;

        (2) a contact name;

        (3) a contact number,

        (4) the location including grid reference (GR);

        (5) the estimated time of lighting; and

        (6) the duration the fire is expected to be lit.

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