EO C424.02 – BOIL WATER USING HEATED ROCKS

1. **Performance**:Boil Water Using Heated Rocks
2. **Conditions**:
   a. Given:
      (1) Water container,
      (2) Controlled fire,
      (3) Fire safety equipment,
      (4) Supervision, and
      (5) Assistance as required.
   b. Denied: Nil.
   c. Environmental: Field setting.
3. **Standard**:The cadet, in a group of no more than three, shall boil water using heated rocks by:
   a. selecting rocks;
   b. heating the rocks in a fire;
   c. removing the rocks from the fire; and
   d. immersing the rocks into a water container.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Discuss the uses of rocks in a survival situation, such as: a. insulation; b. cooking; c. trapping wildlife for food; d. building shelter; and e. tools.	Group Discussion	5 min	C0-111 (p. 417, p. 442, p. 448, p. 451) C2-008 (pp. 246–247) C2-227 (pp. 80–81)
TP2	Identify the following types of rocks: a. igneous, b. sedimentary, and c. metamorphic.	Interactive Lecture	5 min	C2-227 (pp. 101–103)
TP3	Have the cadets, in a group of no more than three, boil water using heated rocks by: a. selecting rocks; b. heating the rocks in a fire; c. removing the rocks from the fire; and d. immersing rocks in a container of water.	Practical Activity	40 min	C2-068 (pp. 236– 237)

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5. **Time**:

a. Introduction / Conclusion:	10 min
b. Group Discussion:	5 min
c. Interactive Lecture:	5 min
d. Practical Activity:	40 min
e. Total:	60 min

6. **Substantiation**:

   a. A group discussion was chosen for TP 1 as it allows the cadets to interact with their peers and share their knowledge, experiences, opinions and feelings on uses of rocks in a survival situation. Sharing in the discussion encourages the cadets to examine their own thoughts and may prompt them to re-think their previously held ideas. Participating in a group discussion improves the cadets' listening skills and team development.

   b. An interactive lecture was chosen for TP 2 as it introduces the cadets to types of rocks and their heating properties.

   c. A practical activity was chosen for TP 3 as it is an interactive way for the cadets to develop skills and knowledge about boiling water using heated rocks in a safe and controlled environment. This activity contributes to the development of survival skills and knowledge in a fun and challenging setting.

7. **References**:

   a. C0-111 ISBN 0-9740820-2-3 Tawrell, P. (2006). *Camping and wilderness survival* (2nd Ed.). Lebanon, NH: Author.

   b. C2-008 ISBN 0-00-2653140-7 Wiseman, J. (1999). *The SAS survival handbook*. Hammersmith, London: HarperCollins Publishers.

   c. C2-068 ISBN 0-425-10572-5 Brown, T., Jr., & Morgan, B. (1983). *Tom Brown's field guide: Wilderness survival*. New York, NY: The Berkley Publishing Group.

   d. C2-227 ISBN 0-425-09147-3 Brown, T., Jr., & Morgan, B. (1984). *Tom Brown's field guide: Living with the earth*. New York, NY: The Berkley Publishing Group.

8. **Training Aids**:

   a. Water container,

   b. Controlled fire, and

   c. Fire safety equipment.

9. **Learning Aids**:

   a. Water container,

   b. Controlled fire, and

   c. Fire safety equipment.

10. **Test Details**:Nil.

11. **Remarks**:

   a. Select an area where the natural resources required may be found.

   b. The instructor shall have prepared a fire(s) for the cadets to use.

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