

**SECTION 13****PO 421 – PERFORM ROPEWORK**

1. **Performance:** Perform Ropework
2. **Conditions:**
  - a. Given:
    - (1) Knife with lanyard,
    - (2) Construction material appropriate to the task,
    - (3) Supervision, and
    - (4) Assistance as required.
  - b. Denied: Nil.
  - c. Environmental: Training area large enough to accommodate the entire group.
3. **Standard:** The cadet will make:
  - a. a boatswain's belt,
  - b. a round mat, or
  - c. a net hammock.
4. **Remarks:** Nil.
5. **Complementary Material:**
  - a. This PO is a complementary package designed to provide an opportunity for the cadets to perform ropework, specifically:
    - (1) EO C421.01 (Make a Boatswain's Belt),
    - (2) EO C421.02 (Make a Round Mat), or
    - (3) EO C421.03 (Make a Net Hammock).
  - b. Some complementary training offered in previous phases may be conducted as complementary training in Phase Four, specifically:
    - (1) EO C321.02 (Rig a Standing Derrick),
    - (2) EO C321.03 (Rig a Gyn),
    - (3) EO C321.04 (Make a Monkey's Fist), and
    - (4) EO C321.05 (Make a Turk's Head).
  - c. When selecting complementary training from previous phases, training staff will review the applicable performance objective, lesson specification and instructional guide.

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**EO C421.01 – MAKE A BOATSWAIN'S BELT**

1. **Performance:** Make a Boatswain's Belt
2. **Conditions:**
  - a. Given:
    - (1) Line,
    - (2) Clips,
    - (3) Supervision, and
    - (4) Assistance as required.
  - b. Denied: Nil.
  - c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard:** The cadet shall make a boatswain's belt.
4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Explain the use of a boatswain's belt.	Interactive Lecture	5 min	
TP2	Demonstrate and have the cadets make a Portuguese Sennit.	Demonstration and Performance	15 min	C1-158 (p. 400)
TP3	Demonstrate and have the cadets make a boatswain's belt.	Demonstration and Performance	60 min	

5. **Time:**
  - a. Introduction / Conclusion: 10 min
  - b. Interactive Lecture: 5 min
  - c. Demonstration and Performance: 75 min
  - d. Total: 90 min
6. **Substantiation:**
  - a. An interactive lecture was chosen for TP 1 as it provides the instructor the opportunity to explain the use of a boatswain's belt prior to making one.
  - b. A demonstration and performance was chosen for TPs 2 and 3 as it allows the instructor to demonstrate making a boatswain's belt using a Portuguese Sennit while providing an opportunity for the cadets to practice this skill under supervision.

7. **References:** C1-158 ISBN 0-385-04025-3 Ashley, C. (1993). *The Ashley book of knots*. New York, NY: Doubleday.
8. **Training Aids:**
  - a. Presentation aids (eg, whiteboard / flip chart / OHP) appropriate for the classroom / training area,
  - b. Completed boatswain's belt,
  - c. Line,
  - d. Elastics, and
  - e. Clips.
9. **Learning Aids:**
  - a. Boatswain's belt planning sheet,
  - b. Line,
  - c. Elastics, and
  - d. Clips.
10. **Test Details:** Nil.
11. **Remarks:**
  - a. On most belts, Inglefield clips are used, however, any type of clip can be substituted.
  - b. The cadets may be required to complete the boatswain's belt on their own time.

**EO C421.02 – MAKE A ROUND MAT**

1. **Performance:** Make a Round Mat

2. **Conditions:**

a. Given:

- (1) 4-mm (3/16-inch) diameter braided line,
- (2) Corkboard,
- (3) Straight pins,
- (4) Glue,
- (5) Round mat pattern,
- (6) Supervision, and
- (7) Assistance as required.

b. Denied: Nil.

c. Environmental: Classroom or training area large enough to accommodate the entire group.

3. **Standard:** The cadet shall make a round mat.

4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Explain the set-up of a knot-weaving board.	Interactive Lecture	10 min	C1-102 (pp. 3–5)
TP2	Demonstrate and have the cadets make a round mat.	Demonstration and Performance	70 min	C1-064 (p. 226)  C1-102 (p. 11)

5. **Time:**

- |                                   |        |
|-----------------------------------|--------|
| a. Introduction / Conclusion:     | 10 min |
| b. Interactive Lecture:           | 10 min |
| c. Demonstration and Performance: | 70 min |
| d. Total:                         | 90 min |

6. **Substantiation:**

- a. An interactive lecture was chosen for TP 1 to introduce the use of a knot-weaving board for making a round mat.
- b. A demonstration and performance was chosen for TP 2 as it allows the instructor to demonstrate making a round mat while providing an opportunity for the cadets to practice this skill under supervision.

7. **References:**

- a. C1-064 ISBN 1-55267-986-1 Budworth, G. (2001). *The ultimate encyclopedia of knots & ropework*. London, England: Anness Publishing Limited.
- b. C1-102 David Fukuhara. (2002). *Fancy knotting: An introduction*. Vancouver, BC: David Fukuhara.

8. **Training Aids:**

- a. Presentation aids (eg, whiteboard / flip chart / OHP) appropriate for the classroom / training area,
- b. 10 m of 4-mm (3/16-inch) diameter braided line,
- c. Corkboard,
- d. Straight pins,
- e. Cutting tool,
- f. Glue, and
- g. Round mat pattern.

9. **Learning Aids:**

- a. 10 m of 4-mm (3/16-inch) diameter braided line,
- b. Corkboard,
- c. Straight pins,
- d. Glue, and
- e. Round mat pattern.

10. **Test Details:** Nil.

11. **Remarks:** If time and resources permit, the instructor can be creative and demonstrate other methods of making the round mat.

**EO C421.03 – MAKE A NET HAMMOCK**

1. **Performance:** Make a Net Hammock

2. **Conditions:**

a. Given:

- (1) Rings,
- (2) Line,
- (3) Netting,
- (4) Cutting tool,
- (5) Supervision, and
- (6) Assistance as required.

b. Denied: Nil.

c. Environmental: Classroom or training area large enough to accommodate the entire group.

3. **Standard:** The cadet shall make a net hammock.

4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Explain, demonstrate and have the cadets make two hammock harnesses.	Demonstration and Performance	30 min	C1-186
TP2	Explain, demonstrate and have the cadets prepare hammock materials, to include; <ol style="list-style-type: none"> <li>a. cutting netting to size;</li> <li>b. attaching side chains to the net;</li> <li>c. attaching harnesses to body of hammock;</li> <li>d. trimming ends; and</li> <li>e. hanging the hammock.</li> </ol>	Demonstration and Performance	50 min	C1-186

5. **Time:**

- |                                   |        |
|-----------------------------------|--------|
| a. Introduction / Conclusion:     | 10 min |
| b. Demonstration and Performance: | 80 min |
| c. Total:                         | 90 min |

6. **Substantiation:** Demonstration and performance was chosen for this lesson as it allows the instructor to explain and demonstrate making a hammock while providing an opportunity for the cadets to practice these skills under supervision.
7. **References:** C1-186 Earth Guild: A Netshops Company. (1998). *How to make your own hammock*. Retrieved February 16, 2009, from <http://www.hammocks.com/howtomakeyourownhammockarticle.cfm>
8. **Training Aids:**
  - a. Rings,
  - b. Line,
  - c. Netting, and
  - d. Cutting tool.
9. **Learning Aids:**
  - a. Rings,
  - b. Line,
  - c. Netting, and
  - d. Cutting tool.
10. **Test Details:** Nil.
11. **Remarks:** Nil.