EO M221.04 – IDENTIFY COMPONENTS OF TACKLES

1. **Performance**: Identify Components of Tackles

2. **Conditions**:

   a. Given:

      (1) a single whip tackle;

      (2) a double whip tackle;

      (3) a luff;

      (4) a two-fold purchase;

      (5) labels;

      (6) a load of 22 kg (50 pounds [lbs]) or less;

      (7) supervision; and

      (8) assistance as required.

   b. Denied: N/A.

   c. Environmental: Suitable classroom facilities or training area large enough to accommodate the entire group.

3. **Standard**: In accordance with specified references, the cadet shall:

   a. identify parts of a tackle;

   b. determine mechanical advantage; and

   c. determine if a tackle is rigged to advantage/disadvantage.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe tackles, to include: a. types, to include: 1. single whip; 2. double whip; 3. luff; and 4. two-fold purchase; and b. their purpose.	Interactive Lecture	10 min	C1-047 (pp. 3-153 to 3-155)

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TP	Description	Method	Time	Refs
TP2	Describe the parts of a tackle, to include: a. standing block; b. standing part; c. hauling part; d. moving block; e. running part; and f. load. Conduct an activity where cadets will label the parts of a tackle	In-Class Activity	10 min	C1-047 (p. 3-151)
TP3	Describe mechanical advantage, to include: a. what it is; b. how to determine it; and c. how to identify if a tackle is rigged to advantage/ disadvantage.	Interactive Lecture	20 min	C1-047 (pp. 3-150 and 3-151)
TP4	Describe velocity ratio, to include: a. what it is; b. how to determine it; and	Interactive Lecture	10 min	C1-047 (p. 3-151)

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	40 min
c.	In-Class Activity:	10 min
d.	Total:	60 min

6. **Substantiation**:

   a. An interactive lecture was chosen for TP1, TP3 and TP4 as it allows the instructor to introduce components of tackles and generate interest in ropework.

   b. An in-class activity was chosen for TP2 as it is an interactive way to provoke thought, stimulate interest, and to confirm the cadets' comprehension of the parts of the tackle.

7. **References**:

   a. C1-003 (ISBN 0-11-770973-5) Royal Navy. (1972). *Admiralty Manual of Seamanship 1964* (Vol. 1). London, England: Her Majesty's Stationery.

   b. C1-047 (ISBN 0-11-772695-8)/BON-050-002/PT-004 Command of the Defence Council. (1995). *BR 67 Admiralty Manual of Seamanship*. London, England: HMSO Publications Centre.

8. **Training Aids**:

   a. Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area;

   b. A single whip tackle, to include:

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(1) a single block;

(2) two metres of line; and

(3) a load of 22 kg (50 lbs) or less;

c. A double whip tackle, to include:

(1) two single blocks;

(2) six metres of line; and

(3) a load of 22 kg (50 lbs) or less;

d. A luff, to include:

(1) a single block;

(2) a double block;

(3) eight metres of line; and

(4) a load of 22 kg (50 lbs) or less;

e. A two fold-purchase, to include:

(1) two double blocks;

(2) 10 metres of line; and

(3) a load of 22 kg (50 lbs) or less;

f. Labels marked as running part, standing part, hauling part, standing block, moving block and load located at A-CR-CCP-602/PF-001, Chapter 11, Annex F; and

g. Answer key locatedat A-CR-CCP-602/PF-001, Chapter 11, Annex H.

9. **Learning Aids**:

a. A single whip tackle;

b. A double whip tackle;

c. A luff;

d. A two-fold purchase;

e. Tape;

f. Labels marked as running part, standing part, hauling part, standing block, moving block, and load located at A-CR-CCP-602/PF-001, Chapter 11, Annex F; and

g. Tackles review handout located at A-CR-CCP-602/PF-001, Chapter 11, Annex G.

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

11. **Remarks**:

a. The instructor is required to rig the single whip, double whip, luff, and two-fold purchase prior to the start of the lesson.

b. This EO is to be conducted prior to EO M221.05 (Rig Tackles). These EOs should be taught consecutively.

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