EO M221.05 – RIG TACKLES

1. **Performance**: Rig Tackles

2. **Conditions**:

   a. Given:

      (1) twenty-six metres of line;

      (2) single blocks;

      (3) double blocks;

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

      (5) a strop;

      (6) supervision; and

      (7) 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 rig tackles, to include:

   a. a single whip;

   b. a double whip;

   c. a luff; and

   d. a two-fold purchase.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain the use of, demonstrate, and have the cadets rig a single whip. Note: The single whip provides a mechanical advantage equal to one and is mainly used to alter the direction of pull on the hauling part of a tackle.	Demonstration and Performance	5 min	C1-047 (p. 3-153)
TP2	Explain the use of, demonstrate, and have the cadets rig a double whip, to include: a. determining mechanical advantage; b. rigging to advantage; and c. rigging to disadvantage.	Demonstration and Performance	15 min	C1-047 (pp. 3-150 to 3-153)

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TP	Description	Method	Time	Refs
TP3	Explain the use of, demonstrate, and have the cadets rig a luff, to include: a. determining mechanical advantage; b. rigging to advantage; and c. rigging to disadvantage.	Demonstration and Performance	20 min	C1-047 (pp. 3-150 to 3-155)
TP4	Explain the use of, demonstrate, and have the cadets rig a two-fold purchase, to include: a. determining mechanical advantage; b. rigging to advantage; and c. rigging to disadvantage.	Demonstration and Performance	20 min	C1-047 (pp. 3-150 to 3-155)
TP5	Conduct an activity for rigging tackles	In-Class Activity	20 min	

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Demonstration and Performance:	80 min
c.	In-Class Activity:	20 min
d.	Total:	90 min

6. **Substantiation**:

   a. Demonstration and performance was chosen for TP1 to TP4 as it allows the instructor to explain and demonstrate how to rig various tackles while providing an opportunity for the cadets to practice these skills under supervision.

   b. An in-class activity was chosen for TP5 as it is an interactive way to reinforce rigging tackles and to confirm the cadets' comprehension of the material.

7. **References**: 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. Twenty-six metres of line;

   b. Single blocks;

   c. Double blocks;

   d. A strop;

   e. A load of 22 kg (50 lbs) or less;

   f. A cutting tool;

   g. Whistle; and

   h. Stopwatch.

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9. **Learning Aids**:
    a. Twenty-six metres of line;
    b. Single blocks;
    c. Double blocks;
    d. A strop;
    e. A load of 22 kg (50 lbs) or less;
    f. Bag; and
    g. Station cards located at A-CR-CCP-602/PF-001, Chapter 11, Annex I.
10. **Test Details**: Cadets will rig tackles to lift a load of 22 kg (50 lbs) or less.
11. **Remarks**: If spring clip hooks are not available, the hook shall be moused prior to hoisting the load.

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