EO C321.02 – RIG A STANDING DERRICK

1. **Performance:** Rig a Standing Derrick.

2. **Conditions:**

   a. Given:

      (1) Standing derrick kit (IAW Chapter 2,),

      (2) Load of 22 kg (50 lbs) or less,

      (3) Hard hat,

      (4) Knife with lanyard,

      (5) Supervision, and

      (6) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Training area large enough to accommodate the entire group.

3. **Standard:** The cadet, as a member of a group, shall rig a standing derrick, to include:

   a. explaining its function;

   b. identifying its parts;

   c. rigging;

   d. responding to commands; and

   e. de-rigging.

4. **Teaching Points:**

TP	Description	Method	Time	Ref
TP1	Explain the function of a standing derrick, to include: a. lifting heavy objects on board ships when a crane or other lifting devices are unavailable; and b. lifting heavy objects on land when lifting devices, such as hydraulics, are not available.	Interactive Lecture	5 min	C1-047 (p. 3-192) C1-049 (p. 194, p. 195)

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TP	Description	Method	Time	Ref
TP2	Identify the parts of a standing derrick, to include: a. topping lift (back guy), b. side guys, c. main purchase, d. spar, e. anti-twister, f. leading block (for the fall of the main purchase), g. strops, h. heel tackles, i. tag line, j. martingale (if fitted), k. shoe (if fitted), and l. thumb pieces/rope collars (if fitted).	Interactive Lecture	15 min	C1-047 (pp. 3-193 to 3-202) C1-049 (p. 195, pp. 199–201)
TP3	Describe the actions taken in response to the following commands: a. heave in, b. check away, c. avast, d. choke, e. secure, f. handsomely, and g. roundly.	Interactive Lecture	15 min	A1-004 (pp. 3-21 to 3-28)
TP4	Demonstrate and have the cadets, as members of a group, rig a standing derrick.	Demonstration and Performance	20 min	C1-047 (p. 3-201)
TP5	Have the cadets, as members of a group, operate a standing derrick, to include: a. hooking on a load of 22 kg (50 lbs) or less; b. raising the load; c. lowering the load; and d. unhooking the load. **Note:** Minimum group size for this TP is four.	Practical Activity	75 min	
TP6	Demonstrate and have the cadets, as members of a group, de-rig a standing derrick.	Demonstration and Performance	10 min	

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5. **Time:**

a.	Introduction/Conclusion:	10 min
b.	Interactive Lecture:	35 min
c.	Demonstration and Performance:	30 min
d.	Practical Activity:	75 min
e.	Total:	150 min

6. **Substantiation:**

a. An interactive lecture was chosen for TPs 1 to 3 to illustrate the function, parts and rigging commands for a standing derrick.

b. Demonstration and performance was chosen for TPs 4 and 6 as it provides the instructor the opportunity to introduce a standing derrick, demonstrate procedures and observe the cadets rigging and de-rigging a standing derrick.

c. A practical activity was chosen for TP 5 as it is an interactive way to introduce the cadets to operating a standing derrick in a safe and controlled environment. This activity contributes to the development of seamanship skills and knowledge in a fun and challenging setting.

7. **References:**

a. A1-004 B-GN-181-105/FP-E00 Chief of the Maritime Staff. (2000). *CFCD 105 Fleet Seamanship Rigging and Procedures Manual*. Ottawa, ON: Department of National Defence.

b. C1-047 (ISBN 0-11-772695-8) Command of the Defence Council. (1995). *BR 67 Admiralty Manual of Seamanship*. London, England: Her Majesty's Stationery Office.

c. C1-049 (ISBN 0-11-771958-7) Royal Navy. (1967). *Admiralty Manual of Seamanship 1964* (Vol. 2). Cambridge, England: Her Majesty's Stationery Office.

8. **Training Aids:**

a. Presentation aids (eg, whiteboard/flip chart/OHP) appropriate for the classroom/training area,

b. Standing derrick kit,

c. Load of 22 kg (50 lbs) or less,

d. Pylons,

e. Parts cards,

f. Picture/model of standing derrick,

g. Standing derrick scoresheet,

h. Whistle, and

i. Stopwatch.

9. **Learning Aids:**

a. Standing derrick kit,

b. Load of 22 kg (50 lbs) or less,

c. Hook,

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d. Hard hat,

e. Issued cadet boots, and

f. Knife with lanyard.

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

11. **Remarks:**

a. This EO shall be conducted after EO M321.01 (Describe Safety Procedures for Operating Lifting Devices).

b. The cadets must wear issued cadet boots and hard hats while operating the standing derrick.

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