

**PO 221**

1. **Performance:** Rig Tackles
2. **Conditions:**
  - a. Given:
    - (1) whipping twine;
    - (2) three-strand line;
    - (3) cutting tool;
    - (4) marlin spike/fid;
    - (5) hooks;
    - (6) single blocks;
    - (7) double blocks;
    - (8) spar;
    - (9) box;
    - (10) a load of 22 kilograms (50 pounds [lbs]) or less;
    - (11) supervision; and
    - (12) 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 will rig tackles, to include:
  - a. use a strop for slinging;
  - b. mousing a hook;
  - c. reeving blocks; and
  - d. rigging the following tackles:
    - (1) a single whip;
    - (2) a double whip;
    - (3) a luff; and
    - (4) a two-fold purchase.
4. **Remarks:**
  - a. Assessment for PO 221 will take place in Phase Three M321.02 (Rig Sheers).
  - b. Three-strand rope is required to complete the strop portion of PO 221.

5. **Complementary Material:**

- a. Complementary material associated with PO 221 is designed to enhance a cadet's ropework skills through a number of activities:
  - (1) EO C221.01 (Make a Back Splice);
  - (2) EO C221.02 (Make an Eye Splice); and
  - (3) EO C221.03 (Make a Long Splice).
- b. Some complementary training offered in Phase One may be selected as complementary training in Phase Two, specifically:
  - (1) EO C121.01 (Whip the End of a Line Using a West Country Whipping);
  - (2) EO C121.02 (Whip the End of a Line Using a Sailmaker's Whipping);
  - (3) EO C121.03 (Complete a Rolling Hitch); and
  - (4) EO C121.04 (Complete a Marling Hitch).
- c. When selecting complementary material from Phase One, training staff shall review the applicable performance objective, lesson specification, and A-CR-CCP-602/PF-001.
- d. Complementary training associated with PO 221 is limited to a total of six periods, which may be conducted during sessions or on a supported day. Corps are not required to use all six periods.

**EO M221.01**

1. **Performance:** Use a Strop for Slinging
2. **Conditions:**
  - a. Given:
    - (1) three-strand line;
    - (2) marlin spike/fid;
    - (3) spar;
    - (4) supervision; and
    - (5) 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 sling a strop, to include making a short splice in one length of line.
4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Describe a strop, to include: <ol style="list-style-type: none"> <li>a. what it is; and</li> <li>b. its purpose.</li> </ol>	Interactive Lecture	5 min	C1-003 (pp. 192 and 193)
TP2	Demonstrate and have the cadets make a strop, by making a short splice in one length of line.	Demonstration and Performance	60 min	A1-004 (pp. 5- 57 and 5-58 and pp. 5-10 to 5-11)
TP3	Demonstrate and have the cadets use a strop for slinging a: <ol style="list-style-type: none"> <li>a. spar; and</li> <li>b. box.</li> </ol>	Demonstration and Performance	20 min	C1-003 (pp. 193 to 195)

5. **Time:**
  - a. Introduction / Conclusion: 5 min
  - b. Interactive Lecture: 5 min
  - c. Demonstration and Performance: 80 min
  - d. Total: 90 min
6. **Substantiation:**
  - a. An interactive lecture was chosen for TP1 as it allows the instructor to generate interest in slinging a strop.

- b. Demonstration and performance was chosen for TP2 and TP3 as it allows the instructor to explain and demonstrate how to use a strop for slinging while providing an opportunity for the cadets to practice these skills under supervision.

7. **References:**

- a. A1-004 B-GN-181-105/FP-E00 Chief of the Maritime Staff. (1997). *CFCD 105 Fleet Seamanship Rigging and Procedures Manual*. Ottawa, ON: Department of National Defence.
- b. C1-003 (ISBN 0-11770973-5) Royal Navy. (1972). *Admiralty Manual of Seamanship 1964 (Vol. 1)*. London, England: Her Majesty's Stationery Office.

8. **Training Aids:**

- a. Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area;
- b. Three-strand line;
- c. Marlin spike/fid;
- d. Spar;
- e. Box;
- f. Strop made with a short splice;
- g. Whipping twine; and
- h. Cutting tool.

9. **Learning Aids:**

- a. Handouts located at A-CR-CCP-602/PF-001, Chapter 11, Annex A, and either Annex B or C;
- b. Two metres of three-strand line;
- c. Marlin spike/fid;
- d. Spar;
- e. Box;
- f. Strop made with a short splice; and
- g. Whipping twine.

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

11. **Remarks:** N/A.

**EO M221.02**

1. **Performance:** Mouse a Hook
2. **Conditions:**
  - a. Given:
    - (1) whipping twine;
    - (2) cutting tool;
    - (3) hook;
    - (4) supervision; and
    - (5) 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 mouse a hook, to prevent a line/load from slipping off an open hook.

4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Describe mousing a hook, to include: <ol style="list-style-type: none"> <li>a. what it is; and</li> <li>b. its purpose.</li> </ol>	Interactive Lecture	5 min	A1-004 (pp. 5-45 and 5-46) C1-003 (p. 171 and 154)
TP2	Demonstrate and have the cadets mouse a hook.	Demonstration and Performance	50 min	A1-004 (pp. 5-45 and 5-46)

5. **Time:**
  - a. Introduction / Conclusion: 5 min
  - b. Interactive Lecture: 5 min
  - c. Demonstration and Performance: 50 min
  - d. Total: 60 min

6. **Substantiation:**

- a. An interactive lecture was chosen for TP1 as it allows the instructor to orient the cadets to mousing a hook.
- b. Demonstration and performance was chosen for TP2 and TP3 as it allows the instructor to explain and demonstrate mousing a hook while providing an opportunity for the cadets to practice this skill under supervision.

7. **References:**

- a. A1-004 B-GN-181-105/FP-E00 Chief of the Maritime Staff. (1997). *CFCD 105 Fleet Seamanship Rigging and Procedures Manual*. Ottawa, ON: Department of National Defence.
- b. C1-003 (ISBN 0-11770973-5) Royal Navy. (1972). *Admiralty Manual of Seamanship 1964 (Vol. 1)*. London, England: Her Majesty's Stationery Office.

8. **Training Aids:**

- a. Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area;
- b. Hook;
- c. Whipping twine; and
- d. Cutting tool.

9. **Learning Aids:**

- a. Hook;
- b. Whipping twine; and
- c. Handout located at A-CR-CCP-602/PF-001, Chapter 11, Annex D.

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

11. **Remarks:** Coat hangers may be used in place of hooks. Bend one end of the coat hanger to serve as the bill of the hook.

**EO M221.03**

1. **Performance:** Reeve Blocks
2. **Conditions:**
  - a. Given:
    - (1) line;
    - (2) single block;
    - (3) double block;
    - (4) supervision; and
    - (5) 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 reeve blocks, to include:
  - a. identifying the parts of a block; and
  - b. identifying the types of blocks.
4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Describe the parts of a block, to include: <ol style="list-style-type: none"> <li>a. crown;</li> <li>b. cheek;</li> <li>c. pin;</li> <li>d. becket;</li> <li>e. tail;</li> <li>f. sheeve;</li> <li>g. swallow;</li> <li>h. head fitting (eye); and</li> <li>i. talley plate.</li> </ol>	Interactive Lecture	5 min	A1-004 (p. 5-94) C1-003 (p. 210)
TP2	Describe the blocks for reeving, to include: <ol style="list-style-type: none"> <li>a. single blocks; and</li> <li>b. double blocks.</li> </ol>	Interactive Lecture	5 min	A1-004 (p. 5-94 and 5-95) C1-003 (p. 218)
TP3	Demonstrate and have the cadets practice reeving a line through a block.	Demonstration and Performance	10 min	A1-004 (p. 5-94) C1-003 (p. 216)

TP	Description	Method	Time	Refs
TP4	Conduct an activity for reeving blocks.	In-Class Activity	5 min	

5. **Time:**

- |    |                                |        |
|----|--------------------------------|--------|
| a. | Introduction / Conclusion:     | 5 min  |
| b. | Interactive Lecture:           | 10 min |
| c. | Demonstration and Performance: | 10 min |
| d. | In-Class Activity:             | 5 min  |
| e. | Total:                         | 30 min |

6. **Substantiation:**

- An interactive lecture was chosen for TP1 and TP2 as it allows the instructor to introduce blocks and to generate interest.
- Demonstration and performance was chosen for TP3 as it allows the instructor to explain and demonstrate reeving a rope through a block while providing an opportunity for the cadets to practice this skill under supervision.
- An in-class activity was chosen for TP4 as it is an interactive way to reinforce reeving a block and to confirm the cadets' comprehension of the material.

7. **References:**

- A1-004 B-GN-181-105/FP-E00 Chief of the Maritime Staff. (1997). *CFCD 105 Fleet Seamanship Rigging and Procedures Manual*. Ottawa, ON: Department of National Defence.
- C1-003 (ISBN 0-11770973-5) Royal Navy. (1972). *Admiralty Manual of Seamanship 1964 (Vol. 1)*. London, England: Her Majesty's Stationery Office.

8. **Training Aids:**

- Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area.
- Two metres of line;
- Single block;
- Double block; and
- Cutting tool.

9. **Learning Aids:**

- Two metres of line;
- Single block;
- Double block;
- Block labels located at A-CR-CCP-602/PF-001, Chapter 11, Annex E;

e. Tape; and

f. Bag.

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

11. **Remarks:** N/A.

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**EO M221.04**

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: <ol style="list-style-type: none"> <li>a. types, to include:               <ol style="list-style-type: none"> <li>(1) single whip;</li> <li>(2) double whip;</li> <li>(3) luff; and</li> <li>(4) two-fold purchase; and</li> </ol> </li> <li>b. their purpose.</li> </ol>	Interactive Lecture	10 min	C1-047 (pp. 3-153 to 3-155)
TP2	Describe the parts of a tackle, to include: <ol style="list-style-type: none"> <li>a. standing block;</li> <li>b. standing part;</li> <li>c. hauling part;</li> <li>d. moving block;</li> </ol>	In-Class Activity	10 min	C1-047 (p. 3-151)

TP	Description	Method	Time	Refs
	e. running part; and f. load. Conduct an activity where cadets will label the parts of a tackle			
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:**

- 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.
- 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:**

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

- Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area;
- A single whip tackle, to include:
  - a single block;
  - two metres of line; and
  - a load of 22 kg (50 lbs) or less;
- 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 located at 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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**EO M221.05**

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	<p>Explain the use of, demonstrate, and have the cadets rig a single whip.</p> <p>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.</p>	Demonstration and Performance	5 min	C1-047 (p. 3-153)
TP2	<p>Explain the use of, demonstrate, and have the cadets rig a double whip, to include:</p> <ol style="list-style-type: none"> <li>a. determining mechanical advantage;</li> <li>b. rigging to advantage; and</li> <li>c. rigging to disadvantage.</li> </ol>	Demonstration and Performance	15 min	C1-047 (pp. 3-150 to 3-153)
TP3	<p>Explain the use of, demonstrate, and have the cadets rig a luff, to include:</p>	Demonstration and Performance	20 min	C1-047 (pp. 3-150 to 3-155)

TP	Description	Method	Time	Refs
	<ul style="list-style-type: none"> <li>a. determining mechanical advantage;</li> <li>b. rigging to advantage; and</li> <li>c. rigging to disadvantage.</li> </ul>			
TP4	Explain the use of, demonstrate, and have the cadets rig a two-fold purchase, to include: <ul style="list-style-type: none"> <li>a. determining mechanical advantage;</li> <li>b. rigging to advantage; and</li> <li>c. rigging to disadvantage.</li> </ul>	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.

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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**EO C221.01**

1. **Performance:** Make a Back Splice
2. **Conditions:**
  - a. Given:
    - (1) three-strand line;
    - (2) marlin spike/fid;
    - (3) whipping twine;
    - (4) supervision; and
    - (5) 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 make a back splice.
4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Explain the use of, demonstrate, and have the cadets tie a crown knot.	Demonstration and Performance	25 min	A1-004 (pp. 5-38 and 5-39)
TP2	Explain the use of, demonstrate, and have the cadets make a back splice.	Demonstration and Performance	30 min	A1-004 (p. 5-55)

5. **Time:**
  - a. Introduction / Conclusion: 5 min
  - b. Demonstration and Performance: 55 min
  - c. Total: 60 min
6. **Substantiation:** Demonstration and performance was chosen for this lesson as it allows the instructor to explain and demonstrate how to make a crown knot and a back splice while providing an opportunity for the cadets to practice these skills under supervision.
7. **References:** A1-004 B-GN-181-105/FP-E00 Chief of the Maritime Staff. (1997). *CFCD 105 Fleet Seamanship Rigging and Procedures Manual*. Ottawa, ON: Department of National Defence.
8. **Training Aids:**
  - a. Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area;
  - b. Three-strand line;
  - c. Marlin Spike/fid;

- d. Whipping twine;
- e. A back splice; and
- f. A cutting tool.

9. **Learning Aids:**

- a. Three-strand line;
- b. Marlin spike/fid;
- c. Whipping twine;
- d. Handout located at A-CR-CCP-602/PF-001, Chapter 11, Annex J; and
- e. Handout located at A-CR-CCP-602/PF-001, Chapter 11, Annex K.

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

11. **Remarks:** Whipping twine is to be used to whip the ends of each strand of the line prior to splicing the line. Ends of the strands may also be taped or melted if whipping twine is not available.

**EO C221.02**

1. **Performance:** Make an Eye Splice
2. **Conditions:**
  - a. Given:
    - (1) three-strand line;
    - (2) marlin spike/fid;
    - (3) whipping twine;
    - (4) supervision; and
    - (5) 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 make an eye splice.
4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Explain the use of, demonstrate, and have the cadets make an eye splice.	Demonstration and Performance	55 min	C1-047 (p. 3-90 to 3-93)

5. **Time:**
  - a. Introduction / Conclusion: 5 min
  - b. Demonstration and Performance: 55 min
  - c. Total: 60 min
6. **Substantiation:** Demonstration and performance was chosen for this lesson as it allows the instructor to explain and demonstrate making an eye splice while providing an opportunity for the cadets to practice this skill under supervision.
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. Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area;
  - b. Three-strand line;
  - c. Marlin spike/fid;
  - d. Whipping twine;

- e. Cutting tool; and
- f. Completed eye splice.

9. **Learning Aids:**

- a. Three-strand line;
- b. Marlin spike/fid;
- c. Whipping twine; and
- d. Handout located at A-CR-CCP-602/PF-001, Chapter 11, Annex L.

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

11. **Remarks:** Whipping twine is to be used to whip the ends of each strand of the line prior to splicing the line. Ends of the strands may also be taped or melted if whipping twine is not available.

**EO C221.03**

1. **Performance:** Make a Long Splice
2. **Conditions:**
  - a. Given:
    - (1) three-strand line;
    - (2) marlin spike/fid;
    - (3) supervision; and
    - (4) 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 make a long splice, so it is able to pass through a block.
4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Explain the use of, demonstrate, and have the cadets make a long splice.	Demonstration and Performance	55 min	A1-004 (pp. 5-59 to 5-61)

5. **Time:**
  - a. Introduction / Conclusion: 5 min
  - b. Demonstration and Performance: 55 min
  - c. Total: 60 min
6. **Substantiation:** Demonstration and performance was chosen for this lesson as it allows the instructor to explain and demonstrate how to make a long splice while providing an opportunity for the cadets to practice this skill under supervision.
7. **References:**
  - a. A1-004 B-GN-181-105/FP-E00 Chief of the Maritime Staff. (1997). *CFCD 105 Fleet Seamanship Rigging and Procedures Manual*. Ottawa, ON: Department of National Defence.
  - 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. Three-strand line;
  - c. Marlin spike/fid;

- d. Whipping twine;
- e. Cutting tool; and
- f. Completed long splice.

9. **Learning Aids:**

- a. Three-strand line;
- b. Marlin spike/fid;
- c. Whipping twine; and
- d. Handout located at A-CR-CCP-602/PF-001, Chapter 11, Annex M.

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

11. **Remarks:** Whipping twine is to be used to whip the ends of each strand of the line prior to splicing the line. Ends of the strands may also be taped or melted if whipping twine is not available.