

# AVTEC Building Maintenance and Construction



## SECTION 1 – Intermediate Rigging

Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

LEARNING OBJECTIVES	TRAINING MATERIAL REQUIRED
<p>Upon successful completion of this topic the trainee will be able to:</p> <ol style="list-style-type: none"><li>1. Be familiar with AVTEC policies</li><li>2. Describe the contents of the unit and understand objectives</li></ol>	<p>A. Reference Materials:</p> <p>B. Instructor Training Aids:</p> <ol style="list-style-type: none"><li>1. White boards and markers</li><li>2. Power Point Presentation and Monitor</li></ol> <p>C. Student Training Aids:</p> <ol style="list-style-type: none"><li>1. Handouts</li></ol>
LEARNING OBJECTIVES	TRAINING MATERIAL REQUIRED

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Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

1. Practice industry standard crane signaling

### A. Reference Materials:

1. AVTEC Intermediate Rigging Power Points
2. Media Links

### B. Instructor Training Aids:

1. White boards and markers
2. Power Point Presentation and Monitor

### C. Student Training Aids:

2. Handouts

**LEARNING OBJECTIVES**

**TRAINING MATERIAL REQUIRED**

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## SECTION 1 – Intermediate Rigging

Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

1. Calculate load weights

A. Reference Materials:

3. AVTEC Intermediate Rigging Power Points
4. Media Links

B. Instructor Training Aids:

3. White boards and markers
4. Power Point Presentation and Monitor
5. Calculator

C. Student Training Aids:

3. Handouts
4. Calculator

**LEARNING OBJECTIVES**

**TRAINING MATERIAL REQUIRED**

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Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

2. Understand and calculate sling angles

A. Reference Materials:

5. AVTEC Intermediate Rigging Power Points
6. Media Links

B. Instructor Training Aids:

6. White boards and markers
7. Power Point Presentation and Monitor
8. Calculator

C. Student Training Aids:

5. Handouts
6. Calculator

**LEARNING OBJECTIVES**

**TRAINING MATERIAL REQUIRED**

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Topic 0- Intro

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Upon successful completion of this topic the trainee will be able to:

1. Calculate sling stress

A. Reference Materials:

7. AVTEC Intermediate Rigging Power Points
8. Media Links

B. Instructor Training Aids:

9. White boards and markers
10. Power Point Presentation and Monitor
11. Calculator

C. Student Training Aids:

7. Handouts
8. Calculator

**LEARNING OBJECTIVES**

**TRAINING MATERIAL REQUIRED**

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Upon successful completion of this topic the trainee will be able to:

2. Locate center of gravity for a given load

### A. Reference Materials:

9. AVTEC Intermediate Rigging Power Points
10. Media Links

### B. Instructor Training Aids:

12. White boards and markers
13. Power Point Presentation and Monitor
14. Calculator

### C. Student Training Aids:

9. Handouts
10. Calculator

**LEARNING OBJECTIVES**

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Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

3. Apply the common hitches used in the construction industry

### A. Reference Materials:

11. AVTEC Intermediate Rigging Power Points
12. Media Links

### B. Instructor Training Aids:

15. White boards and markers
16. Power Point Presentation and Monitor
17. Calculator
18. Slings
19. Simulated loads

### C. Student Training Aids:

11. Handouts
12. Calculator

**LEARNING OBJECTIVES**

**TRAINING MATERIAL REQUIRED**

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Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

4. Demonstrate the inspection and safe proper use of rigging slings

### A. Reference Materials:

13. AVTEC Intermediate Rigging Power Points
14. Media Links

### B. Instructor Training Aids:

20. White boards and markers
21. Power Point Presentation and Monitor
22. Calculator
23. Slings
24. Simulated loads

### C. Student Training Aids:

13. Handouts
14. Calculator

**LEARNING OBJECTIVES**

**TRAINING MATERIAL REQUIRED**



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Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

5. Demonstrate the inspection and safe proper use of rigging gear and hardware

### A. Reference Materials:

15. AVTEC Intermediate Rigging Power Points
16. Media Links

### B. Instructor Training Aids:

25. White boards and markers
26. Power Point Presentation and Monitor
27. Calculator
28. Rigging Hardware

### C. Student Training Aids:

15. Handouts
16. Calculator

**LEARNING OBJECTIVES**

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Topic 0- Intro

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Upon successful completion of this topic the trainee will be able to:

6. Demonstrate the inspection and safe proper use of below the hook devices

### A. Reference Materials:

17. AVTEC Intermediate Rigging Power Points
18. Media Links

### B. Instructor Training Aids:

29. White boards and markers
30. Power Point Presentation and Monitor
31. Calculator
32. Rigging Hardware

### C. Student Training Aids:

17. Handouts
18. Calculator

**LEARNING OBJECTIVES**

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## SECTION 1 – Intermediate Rigging

Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

7. Evaluate crane load charts

### A. Reference Materials:

19. AVTEC Intermediate Rigging Power Points
20. Media Links

### B. Instructor Training Aids:

33. White boards and markers
34. Power Point Presentation and Monitor
35. Calculator
36. Rigging Hardware

### C. Student Training Aids:

19. Handouts
20. Calculator

**LEARNING OBJECTIVES**

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Upon successful completion of this topic the trainee will be able to:

8. Recognize common hazards involved with crane operations

### A. Reference Materials:

21. AVTEC Intermediate Rigging Power Points
22. Media Links

### B. Instructor Training Aids:

37. White boards and markers
38. Power Point Presentation and Monitor

### C. Student Training Aids:

21. Handouts

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Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

9. Practice industry standard crane signaling and communication

### A. Reference Materials:

23. AVTEC Intermediate Rigging Power Points
24. Media Links

### B. Instructor Training Aids:

39. White boards and markers
40. Power Point Presentation and Monitor

### C. Student Training Aids:

22. Handouts

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Topic 0- Intro

Lecture: 0.25 Sim/Exercise: 0.0hr(s)

Upon successful completion of this topic the trainee will be able to:

10. Demonstrate the inspection and safe proper use of rigging slings and hardware
11. Apply the common hitches used in the construction industry
12. Calculate load weights and sling stress
13. Evaluate crane load charts
14. Practice industry standard crane signaling

### A. Reference Materials:

25. AVTEC Intermediate Rigging Power Points
26. Media Links

### B. Instructor Training Aids:

41. White boards and markers
42. Power Point Presentation and Monitor

### C. Student Training Aids:

23. Handouts