

AVTEC Building Maintenance and Construction



SECTION 1 – Roof Framing

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">1. Be familiar with AVTEC policies2. Be familiar with the training facility layout, including: heads, scuttlebutts, maritime main office, student lounge, emergency egress and muster station, fire extinguishers, business office.3. Describe the contents of the unit and understand objectives	<p>A. Reference Materials:</p> <p>B. Instructor Training Aids:</p> <ol style="list-style-type: none">1. White boards and markers2. Power Point Presentation and Monitor <p>C. Student Training Aids:</p> <ol style="list-style-type: none">1. Handouts

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

1. Describe and identify the components and terminology of a roof system

A. Reference Materials:

1. AVTEC Roof Framing 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

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

2. Operate hand and power tools common to roof framing in a safe manner

A. Reference Materials:

3. AVTEC Roof Framing Power Points
4. Media Links

B. Instructor Training Aids:

3. White boards and markers
4. Power Point Presentation and Monitor
5. Hand tools
6. Power tools
7. Materials

C. Student Training Aids:

3. Handouts
4. Hand tools
5. Power tools
6. Materials

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

1. Exercise construction print reading as it pertains to roofs and roof framing

A. Reference Materials:

5. AVTEC Roof Framing Power Points
6. Media Links

B. Instructor Training Aids:

8. White boards and markers
9. Power Point Presentation and Monitor
10. Construction prints

C. Student Training Aids:

7. Handouts
8. Construction prints

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

2. Exercise roof framing calculation

A. Reference Materials:

7. AVTEC Roof Framing Power Points
8. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

9. Handouts
10. Construction prints
11. Calculator

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

3. Exercise roof framing calculation

A. Reference Materials:

9. AVTEC Roof Framing Power Points
10. Media Links

B. Instructor Training Aids:

15. White boards and markers
16. Power Point Presentation and Monitor
17. Construction prints
18. Calculator

C. Student Training Aids:

12. Handouts
13. Construction prints
14. Calculator

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

4. Exercise roof framing layout

A. Reference Materials:

11. AVTEC Roof Framing Power Points
12. Media Links

B. Instructor Training Aids:

19. White boards and markers
20. Power Point Presentation and Monitor
21. Construction prints
22. Calculator
23. Hand tools
24. Framing material

C. Student Training Aids:

15. Handouts
16. Construction prints
17. Calculator
18. Hand tools
19. Framing material

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

5. Construct basic stick framed roof systems

A. Reference Materials:

13. AVTEC Roof Framing Power Points
14. Media Links

B. Instructor Training Aids:

25. White boards and markers
26. Power Point Presentation and Monitor
27. Construction prints
28. Calculator
29. Hand tools
30. Power tools
31. Roof plan
32. Framing material

C. Student Training Aids:

20. Handouts
21. Construction prints
22. Calculator
23. Hand tools
24. Power tools
25. Roof plan
26. Framing material

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

6. Construct basic trussed roof systems

A. Reference Materials:

15. AVTEC Roof Framing Power Points
16. Media Links

B. Instructor Training Aids:

33. White boards and markers
34. Power Point Presentation and Monitor
35. Construction prints
36. Calculator
37. Hand tools
38. Power tools
39. Roof plan
40. Framing material
41. Trusses

C. Student Training Aids:

27. Handouts
28. Construction prints
29. Calculator
30. Hand tools
31. Power tools
32. Roof plan
33. Framing material
34. Trusses

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<p>Upon successful completion of this topic the trainee will be able to:</p> <ol style="list-style-type: none"> 7. Describe and identify the components of a roof system 8. Exercise construction print reading and roof framing calculation/layout 9. Describe required safety precautions during the framing process 10. Operate hand and power tools common to roof framing in a safe manner 11. Construct stick framed and trussed roof systems 	<p>A. Reference Materials:</p> <ol style="list-style-type: none"> 17. AVTEC Roof Framing Power Points 18. Media Links <p>B. Instructor Training Aids:</p> <ol style="list-style-type: none"> 42. White boards and markers 43. Power Point Presentation and Monitor 44. Construction prints 45. Calculator 46. Hand tools 47. Framing materials <p>C. Student Training Aids:</p> <ol style="list-style-type: none"> 35. Handouts 36. Construction prints 37. Calculator 38. Hand tools 39. Framing material