

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

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
LEARNING OBJECTIVES	TRAINING MATERIAL REQUIRED

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

1. Apply the fundamentals of math including addition, subtraction, multiplication, and division

A. Reference Materials:

1. AVTEC Applied Construction Math 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

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

2. Compute areas and volumes of 2 and 3 dimensional shapes common to construction

A. Reference Materials:

3. AVTEC Applied Construction Math Power Points
4. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

3. Handouts

LEARNING OBJECTIVES

TRAINING MATERIAL REQUIRED

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

3. Explain the relationship between the 3 trigonometric functions

A. Reference Materials:

5. AVTEC Applied Construction Math Power Points
6. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

4. Handouts

LEARNING OBJECTIVES

TRAINING MATERIAL REQUIRED

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

1. Demonstrate the trigonometry functions relating to construction based triangles

A. Reference Materials:

7. AVTEC Applied Construction Math Power Points
8. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

5. Handouts

LEARNING OBJECTIVES

TRAINING MATERIAL REQUIRED

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

2. Describe and operate the Construction Master calculator

A. Reference Materials:

9. AVTEC Applied Construction Math Power Points
10. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

6. Handouts

LEARNING OBJECTIVES

TRAINING MATERIAL REQUIRED

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

3. Calculate materials quantities

A. Reference Materials:

11. AVTEC Applied Construction Math Power Points
12. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

7. Handouts

LEARNING OBJECTIVES

TRAINING MATERIAL REQUIRED

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

4. Apply the fundamentals of math including addition, subtraction, multiplication, and division
5. Compute areas and volumes of 2 and 3 dimensional shapes common to construction
6. Explain the relationship between the 3 trigonometric functions
7. Demonstrate the trigonometry functions relating to construction based triangles.
8. Calculate materials quantities
9. Describe and operate the Construction Master calculator

A. Reference Materials:

13. AVTEC Applied Construction Math Power Points
14. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

8. Handouts

LEARNING OBJECTIVES

TRAINING MATERIAL REQUIRED

AVTEC Building Maintenance and Construction



SECTION 1 – Applied Construction Math

Topic 0- Intro

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

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

10. Apply the fundamentals of math including addition, subtraction, multiplication, and division
11. Compute areas and volumes of 2 and 3 dimensional shapes common to construction
12. Explain the relationship between the 3 trigonometric functions
13. Demonstrate the trigonometry functions relating to construction based triangles.
14. Calculate materials quantities
15. Describe and operate the Construction Master calculator

A. Reference Materials:

15. AVTEC Applied Construction Math Power Points
16. Media Links

B. Instructor Training Aids:

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

C. Student Training Aids:

9. Handouts