



AVTEC Maritime-Confined Space Entry/Rescue- Detailed Teaching Syllabus

SECTION 0 – Confined Space Entry/Rescue

Topic 0.1- Introduction

Lecture: 0.25 Exercise: 0.0

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. Recognize, evaluate and control confined (or enclosed) space hazards.2. Safely enter and exit a confine space.3. Perform both horizontal and vertical confine space rescue.	<p>A. Reference Materials:</p> <ol style="list-style-type: none">1. Confined Space Rescue Technician Manual; CMC Rescue2. 29 CFR 1915 & 19103. NFPA 350 Standard <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>

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Topic 1.1 Confined Space

Lecture: 1.0 Exercise: 0.0

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. Discuss the three conditions that defines a confined space.2. Know the potential hazards within a confined space.3. Understands where to look for information concerning confined space entry and rescue.	<p>A. Reference Materials:</p> <ol style="list-style-type: none">1. 29 CFR 1915 & 19102. NFPA 306 & 350 Standard3. Confined Space Rescue Technician Manual; CMC Rescue <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>

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Topic 1.2- Confined Space Hazards and Controls

Lecture: 1.5 Exercise: 0.5

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. Become familiar with the hazards that are associated with confined spaces, i.e. oxygen deficiency, flammable, CO, H₂S, and toxins.2. Know the types of controls of the hazards in a confined space such as PPE's, engineering and administrative.	<ol style="list-style-type: none">A. Reference Materials:<ol style="list-style-type: none">1. Confined Space Rescue Technician Manual; CMC Rescue2. NFPA 306 Standard3. 29 CFR 1915, Subpart BB. Instructor Training Aids:<ol style="list-style-type: none">1. White boards and markers2. Power Point Presentation and MonitorC. Student Training Aids:

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Topic 1.3- Permits

Lecture: 0.5 Exercise: 1.5

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. Understand what a Job Safety Analysis (JSA) is, what it is for and how to fill on out.2. Know how to complete a Confined Space Entry Permit and to know the purpose of one is for.3. Describe what a Lock Out/Tag Out (LOTO) document is for, what it is for and how to complete the document.	<ol style="list-style-type: none">A. Reference Materials:<ol style="list-style-type: none">1. Confined Space Rescue Technician Manual; CMC RescueB. Instructor Training Aids:<ol style="list-style-type: none">1. White boards and markers2. Power Point Presentation and MonitorC. Student Training Aids:<ol style="list-style-type: none">1. Job Safety Analysis form2. Confine Space Entry form3. Lock Out/Tag Out form

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Topic 1.4- Entry/Rescue

Lecture: 0.5 Exercise: 0.5

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. Describe the Stop, Think and Ask principle.2. Know what limitations that might present themselves.3. Describe the four positions of Supervisor, Attendant, Authorized Entrant, Rescue team.4. Understand that atmospheric conditions can change since the initial gas test.5. Know the type of equipment needed for both entry and rescue.6. Understand all of the safety concerns of confined space entry, both inside and at the entrance.	<p>A. Reference Materials:</p> <ol style="list-style-type: none">1. Confined Space Rescue Technician Manual; CMC Rescue2. NFPA 306 & 350 Standard3. 29 CFR 1910 & 1915 <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>

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SECTION 2- Practical Exercises

Topic 2.1- Introduction

Lecture: 0.25 Exercise: 0.5

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. Understand the four exercises that they will need to perform.2. Describe the “Safety First” and “Stop Work Authority” while the class is engaged with the exercises.3. Know the equipment that the class will be using.	<p>A. Reference Materials:</p> <ol style="list-style-type: none">1. Confined Space Rescue Technician Manual, CMC Rescue <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>

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SECTION 2- Practical Exercises

Topic 2.2- Testing Atmosphere

Lecture: 0.25 Exercise: 0.5

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. Operate the gas analyzer and to take readings correctly.2. Analyze and evaluate the correct readings taken.3. Complete the required forms for both Shipyard Competent Person and Confined Space Entry Permit.	<p>A. Reference Materials:</p> <ol style="list-style-type: none">1. Confined Space Rescue Technician manual, CMC, Rescue <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. Gas analyzer2. Shipyard Competent Person log and Confined Space Entry form

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SECTION 2- Practical Exercises

Topic 2.3- Confined Space Entry

Lecture: 0.25 Exercise: 3.5

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. Describe how they should enter a confined space and what precautions they should be looking for.2. Enter a confined space properly with the correct safety gear.	<p>A. Reference Materials:</p> <ol style="list-style-type: none">1. Confined Space Rescue Technician manual, CMC, Rescue <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. Safety harness2. PPE's, i.e. gloves, safety glasses, hard hat

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SECTION 2- Practical Exercises

Topic 2.4- Vertical Rescue

Lecture: 0.0 Exercise: 1.0

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. Describe how they should enter, what equipment they should wear and the equipment that is needed for this type of rescue.2. Demonstrate the proper procedure to enter and extract an injured person from a confined space.	<ol style="list-style-type: none">A. Reference Materials:<ol style="list-style-type: none">1. Confined Space Rescue Technician manual, CMC, RescueB. Instructor Training Aids:<ol style="list-style-type: none">1. White boards and markers2. Power Point Presentation and MonitorC. Student Training Aids:<ol style="list-style-type: none">1. Safety harness2. SCBA or other air-supplied breathing apparatus3. PPE's, I.e. gloves, etc.

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SECTION 2- Practical Exercises

Topic 2.5- Horizontal Rescue

Lecture: 0.5

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. Describe how they should enter, what equipment they should wear and the equipment that is needed for this type of rescue.2. Demonstrate the proper procedure to enter and extract an injured person from a confined space.	<p>A. Reference Materials:</p> <ol style="list-style-type: none">1. Confined Space Rescue Technician manual, CMC, Rescue <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. Safety harness2. SCBA or other air-supplied breathing apparatus3. PPE's, i.e. gloves, etc.