

**Course Title:** Tanker Water Supply

**SFA Course Code:** TAWS

**Length of Course:** 16 Hours

**Lecture/Lab Breakdown:** 12/4

**Prerequisites:** IST

**Course Goal:** Students attending this program will become familiar with techniques for moving water for fire extinguishment utilizing tank trucks. They shall understand the safest, most efficient methods of supplying the fire ground with water requirements with tankers.

**Description of Course:** A program dealing with supplying the fire ground with water from tank trucks. Subjects covered include tank truck construction, water flow requirements, water supply set up, and the drop tank shuttle system.

**Description of Methodology to be used:** Combination of lecture, audiovisual presentation, demonstration, and practical exercises.

**Student Equipment/Supply Needs:** Turn out gear and note taking material.

**Equipment/Audiovisual/Supply requirements:** Classroom, chalkboard, screen, audiovisuals per instructor discretion, scales for weighing tankers, two engines minimum, six tankers minimum, three portable folding tanks minimum, four portable pumps minimum, various strainers, syphon devices and other tanker shuttle operation equipment. Two locations for outside evolutions, one for filling tankers from draft and one to dump water from tankers. A deluge gun with stacked tips, pitot gauge, large diameter hose with a four port manifold, quarter turn couplings, and colored tape are advantageous for the program.

**Special Conditions:** A *TAWS* accredited assistant instructor is needed for supervision and instruction at the fill site.

**COURSE OUTLINE**

Time		Content	Notes
:30	Session 1	Registration; Course History and Description	
1:30	Session 2	Water Fire Extinguishment	
2:00	Session 3	Tanker Construction and Theory	
1:00	Session 4	Weighing Exercise	
3:00	Session 5	Evaluations, Comparisons and Simulated Sites	
1.00	Session 6	Review and Discussion on Sessions 1-5	
1 00	Session 7	Group Exercise: Building a Tanker	
1:00	Session 8	Site Set Up and the Shuttle System	
4:00	Session 9	Tanker Shuttle Evolution	
1:00	Session 10	Conclusion	

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## MININUN STANDARDS FOR ACCREDITATION

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**Competency Evaluation Mechanism:** Direct questioning by instructor during class and process student evaluation by instructor during practical exercises.

**Learning Outcomes: (course objectives):** Upon completion of this course, the participant will, to the satisfaction of the instructor:

1. list and explain why water is used for fire extinguishment.
2. explain the necessity for manpower, apparatus and equipment, and how they are dependent on one another.
3. be able to determine by several methods the amount of water required to extinguish a structure fire.
4. be able to identify various types of tanker construction for fire department use, and necessary specifications to build a safe fire department tanker.
5. participate and become familiar with the method to determine the amount of water on a tanker and the dump rate of that tanker.
6. Set up a fill site for filling tankers with portable pumps.
7. Use at least two methods to transfer water between portable tanks.
8. Compare different types of strainers and how they work in a portable tank.
9. Set up a fill site using large diameter hose with a four-port manifold and four separate fill linesutilize quarter-turn couplings; fill one tanker at a time with two of the four lines.
10. Describe at least two different dump valves and their dumping advantages / disadvantages.
11. Acting as a member of a group, develop specifications for a tanker for their group's "fire department".
12. Explain proper methods and procedures for operating a fill site and dump site, and operating a shuttle system between the sites.
13. Acting as a member of a team, set up and maintain a safe, efficient tanker shuttle operation, participating in both fill and dump site operations.

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