

# All Classes will be held In-Person

Location **Livermore**  
 Course Course I

Week of 12/20/2021 & Week of 12/27/2021 --- WINTER BREAK

## Spring 2022 Semester

Tuesday, January 11, 2022 4 **Student Orientation - (OJT Process) & Module 18105-13 – Copper Tube Systems Part 1 of 2**  
 Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of plastic pipe, identify approved types of copper pipe, calculate take-outs, set up equipment, cut, chamfer, and clean copper pipe, and check for correctness of end preparation.

Tuesday, January 18, 2022 4 **Module 18105-13 – Copper Tube Systems Part 2 of 2**  
 Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of plastic pipe, identify approved types of copper pipe, calculate take-outs, set up equipment, cut, chamfer, and clean copper pipe, and check for correctness of end preparation.  
**TEST # 13/LAB**

Tuesday, January 25, 2022 4 **Module 18104-13 – CPVC Pipe and Fittings 1 of 2**  
 Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of CPVC pipe, identify approved CPVC pipe, calculate take-outs, set up equipment, join and cure CPVC pipe, and check for correctness of end preparation.

Tuesday, February 1, 2022 4 **Module 18104-13 – CPVC Pipe and Fittings 2 of 2**  
 Upon completion of this module, the trainee will be able to follow basic safety precautions for the preparation and installation of CPVC pipe, identify approved CPVC pipe, calculate take-outs, set up equipment, join and cure CPVC pipe, and check for correctness of end preparation.  
**TEST # 12/LAB**

Tuesday, February 8, 2022 4 **Module 00105-15 Introduction to Construction Drawings Part 1 of 3**  
 Upon successful completion of this module, the trainee will be able to identify and describe various types of construction drawings (civil, architectural, structural, mechanical, plumbing/piping, electrical, fire protection); describe the purpose of the five basic components of construction drawings; explain the significance of various drawing elements, such as lines of construction, abbreviations, symbols, and grid lines; identify and describe the use of dimensions, various drawing scales, and how to use engineer's and architect's scales.

Tuesday, February 15, 2022 4 **Module 00105-15 Introduction to Construction Drawings Part 2 of 3** Upon successful completion of this module, the trainee will be able to identify and describe various types of construction drawings (civil, architectural, structural, mechanical, plumbing/piping, electrical, fire protection); describe the purpose of the five basic components of construction drawings; explain the significance of various drawing elements, such as lines of construction, abbreviations, symbols, and grid lines; identify and describe the use of dimensions, various drawing scales, and how to use engineer's and architect's scales.

Tuesday, February 22, 2022 4 **Module 00105-15 Introduction to Construction Drawings Part 3 of 3**  
 Upon successful completion of this module, the trainee will be able to identify and describe various types of construction drawings (civil, architectural, structural, mechanical, plumbing/piping, electrical, fire protection); describe the purpose of the five basic components of construction drawings; explain the significance of various drawing elements, such as lines of construction, abbreviations, symbols, and grid lines; identify and describe the use of dimensions, various drawing scales, and how to use engineer's and architect's scales.  
**TEST# 5 /LAB**

Tuesday, March 1, 2022 4 **Module 00106-15 Basic Rigging**  
 Upon successful completion of this module, the trainee will be able to identify and describe various types of slings and how to inspect them; identify and describe how to inspect common rigging hardware; identify and describe various types of joists; and identify and describe basic rigging hitches and the related Emergency Stop hand signal.  
**TEST #6/LAB**

Tuesday, March 8, 2022 4 **Module 00102-015 Introduction to Construction Math Part 1 of 3**  
Upon successful completion of this module, the trainee will be able to identify whole numbers and demonstrate how to work with them mathematically; explain how to work with fractions; describe the decimal system and explain how to work with decimals; identify various tools used to measure length and show how they are used; identify and convert units of length, weight, volume, and temperature between the Imperial and metric systems of measurement; and identify basic angles and geometric shapes and explain how to calculate their area and volume.

Tuesday, March 15, 2022 4 **Module 00102-015 Introduction to Construction Math Part 2 of 3** Upon successful completion of this module, the trainee will be able to identify whole numbers and demonstrate how to work with them mathematically; explain how to work with fractions; describe the decimal system and explain how to work with decimals; identify various tools used to measure length and show how they are used; identify and convert units of length, weight, volume, and temperature between the Imperial and metric systems of measurement; and identify basic angles and geometric shapes and explain how to calculate their area and volume.

**QUIZ/Test Review**

Tuesday, March 22, 2022 4 **Module 00102-015 Introduction to Construction Math Part 3 of 3** Upon successful completion of this module, the trainee will be able to identify whole numbers and demonstrate how to work with them mathematically; explain how to work with fractions; describe the decimal system and explain how to work with decimals; identify various tools used to measure length and show how they are used; identify and convert units of length, weight, volume, and temperature between the Imperial and metric systems of measurement; and identify basic angles and geometric shapes and explain how to calculate their area and volume.

**TEST #2**

Tuesday, March 29, 2022 4 **Module 18106-13 – Underground Pipe Part 1 of 4**  
Upon completion of this module, the trainee will be able to identify types and properties of soil, explain excavation safety, explain sloping requirements for different types of soil, explain digging trenches, describe excavation support systems, describe types of bedding material, identify and describe types of underground pipe, describe thrust blocks and restraints, identify and describe hydrants, yard valves, hydrant houses, and associated appurtenances, explain testing, inspection, and chlorinating of underground pipe, and fill out an Underground Test Certificate.

Tuesday, April 5, 2022 4 **Module 18106-13 – Underground Pipe Part 2 of 4**  
Upon completion of this module, the trainee will be able to identify types and properties of soil, explain excavation safety, explain sloping requirements for different types of soil, explain digging trenches, describe excavation support systems, describe types of bedding material, identify and describe types of underground pipe, describe thrust blocks and restraints, identify and describe hydrants, yard valves, hydrant houses, and associated appurtenances, explain testing, inspection, and chlorinating of underground pipe, and fill out an Underground Test Certificate.

Tuesday, April 12, 2022 4 **Module 18106-13 – Underground Pipe Part 3 of 4**  
Upon completion of this module, the trainee will be able to identify types and properties of soil, explain excavation safety, explain sloping requirements for different types of soil, explain digging trenches, describe excavation support systems, describe types of bedding material, identify and describe types of underground pipe, describe thrust blocks and restraints, identify and describe hydrants, yard valves, hydrant houses, and associated appurtenances, explain testing, inspection, and chlorinating of underground pipe, and fill out an Underground Test Certificate.

**Week of 4/18/2022 --- SPRING BREAK**

Tuesday, April 26, 2022 4 **Module 18106-13 – Underground Pipe Part 4 of 4**  
Upon completion of this module, the trainee will be able to identify types and properties of soil, explain excavation safety, explain sloping requirements for different types of soil, explain digging trenches, describe excavation support systems, describe types of bedding material, identify and describe types of underground pipe, describe thrust blocks and restraints, identify and describe hydrants, yard valves, hydrant houses, and associated appurtenances, explain testing, inspection, and chlorinating of underground pipe, and fill out an Underground Test Certificate.

**TEST #14**

Saturday, April 30, 2022 4 **Module 18106-13 - Underground Pipe - LAB**

Tuesday, May 3, 2022 4 **Residential - Module 3 System Design Configurations Part 1 of 4**  
Upon completion of this module, the trainee will be able to identify three different piping configurations; define the meaning of a multipurpose piping system; identify basic design criteria for residential sprinkler systems outlined in industry standards such as NFPA 13D, UL 1626, and FM 2030; explain different types of sprinklers and system types approved for residential installation; identify sprinkler system components such as pipes, valves, fittings, piping support, sprinklers, and alarms; perform basic manual hydraulic calculations; identify residential construction areas requiring special applications; explain electrolysis; and describe the importance of water supplies, sources, and distribution in a fire sprinkler system.

Tuesday, May 10, 2022 4 **Residential - Module 3 System Design Configurations Part 2 of 4**  
Upon completion of this module, the trainee will be able to identify three different piping configurations; define the meaning of a multipurpose piping system; identify basic design criteria for residential sprinkler systems outlined in industry standards such as NFPA 13D, UL 1626, and FM 2030; explain different types of sprinklers and system types approved for residential installation; identify sprinkler system components such as pipes, valves, fittings, piping support, sprinklers, and alarms; perform basic manual hydraulic calculations; identify residential construction areas requiring special applications; explain electrolysis; and describe the importance of water supplies, sources, and distribution in a fire sprinkler system.

Tuesday, May 17, 2022 4 **Module 3 System Design Configurations Part 3 & Part 4 of 4**  
Upon completion of this module, the trainee will be able to identify three different piping configurations; define the meaning of a multipurpose piping system; identify basic design criteria for residential sprinkler systems outlined in industry standards such as NFPA 13D, UL 1626, and FM 2030; explain different types of sprinklers and system types approved for residential installation; identify sprinkler system components such as pipes, valves, fittings, piping support, sprinklers, and alarms; perform basic manual hydraulic calculations; identify residential construction areas requiring special applications; explain electrolysis; and describe the importance of water supplies, sources, and distribution in a fire sprinkler system.  
**TEST #1**

Tuesday, May 24, 2022 4 **Module 5 Special Systems and Retrofit**  
Upon completion of this module, the trainee will be able to explain the need for installation of special systems, such as dry pipe and antifreeze; understand the use of pumps, identify the presence of microbiologically influenced corrosion and the hazards it presents; explain the steps of retrofitting existing structures; demonstrate routine maintenance; and identify various types of wall construction.  
**TEST #2/LAB**

**Semester Required Hours: 80**

# All Classes will be held In-Person

Location Livermore

Course II

## Spring 2022 Semester

Tuesday, January 11, 2022 4 **Student Orientation - (OJT Process) & Module 18205-13 – Standard Spray Fire Sprinklers Part 1 of 5**

Upon completion of this module, the trainee will be able to, using a shop drawing you are currently installing on a project, identify unobstructed and obstructed construction on the drawing, and explain why these construction types are obstructed or unobstructed, calculate maximum coverage area of standard sprinklers for various occupancies, calculate spacing using the small room rule, determine sprinkler temperatures by examining different sprinklers, calculate the maximum spacing of sidewall sprinklers using the protection area rule, and referencing a Sprinkler Identification Number (SIN), identify the manufacturer and sprinkler type.

Tuesday, January 18, 2022 4 **Module 18205-13 – Standard Spray Fire Sprinklers Part 2 of 5**

Upon completion of this module, the trainee will be able to, using a shop drawing you are currently installing on a project, identify unobstructed and obstructed construction on the drawing, and explain why these construction types are obstructed or unobstructed, calculate maximum coverage area of standard sprinklers for various occupancies, calculate spacing using the small room rule, determine sprinkler temperatures by examining different sprinklers, calculate the maximum spacing of sidewall sprinklers using the protection area rule, and referencing a Sprinkler Identification Number (SIN), identify the manufacturer and sprinkler type.

Tuesday, January 25, 2022 4 **Module 18205-13 – Standard Spray Fire Sprinklers Part 3 of 5**

Upon completion of this module, the trainee will be able to, using a shop drawing you are currently installing on a project, identify unobstructed and obstructed construction on the drawing, and explain why these construction types are obstructed or unobstructed, calculate maximum coverage area of standard sprinklers for various occupancies, calculate spacing using the small room rule, determine sprinkler temperatures by examining different sprinklers, calculate the maximum spacing of sidewall sprinklers using the protection area rule, and referencing a Sprinkler Identification Number (SIN), identify the manufacturer and sprinkler type.

Tuesday, February 1, 2022 4 **Module 18205-13 – Standard Spray Fire Sprinklers Part 4 of 5**  
Upon completion of this module, the trainee will be able to, using a shop drawing you are currently installing on a project, identify unobstructed and obstructed construction on the drawing, and explain why these construction types are obstructed or unobstructed, calculate maximum coverage area of standard sprinklers for various occupancies, calculate spacing using the small room rule, determine sprinkler temperatures by examining different sprinklers, calculate the maximum spacing of sidewall sprinklers using the protection area rule, and referencing a Sprinkler Identification Number (SIN), identify the manufacturer and sprinkler type.  
**TEST Review**

Tuesday, February 8, 2022 4 **Module 18205-13 – Standard Spray Fire Sprinklers Part 5 of 5**  
Upon completion of this module, the trainee will be able to, using a shop drawing you are currently installing on a project, identify unobstructed and obstructed construction on the drawing, and explain why these construction types are obstructed or unobstructed, calculate maximum coverage area of standard sprinklers for various occupancies, calculate spacing using the small room rule, determine sprinkler temperatures by examining different sprinklers, calculate the maximum spacing of sidewall sprinklers using the protection area rule, and referencing a Sprinkler Identification Number (SIN), identify the manufacturer and sprinkler type.  
**TEST #5**

Tuesday, February 15, 2022 4 **Module 18205-13 – Standard Spray Fire Sprinklers - LAB**

Tuesday, February 22, 2022 4 **Module 18206-13 – Wet Fire Sprinkler Systems Part 1 of 4**  
Upon completion of this module, the trainee will be able to describe riser check, alarm check valves, and trim, trim an alarm check valve and replace the faceplate gasket, identify and describe flow switches, tamper switches, and pressure switches, install a flow switch and set the retard device, identify and explain fire department connections and hose stations, explain inspector's test connections and auxiliary drains, explain hydrostatic testing and test pumps, perform a hydrostatic test using a pump, describe antifreeze systems, calculate the specific gravity of an antifreeze solution, and complete a contractor's material & test certificate, and identify a faulty pressure gauge and replace it.

Tuesday, March 1, 2022 4 **Module 18206-13 – Wet Fire Sprinkler Systems Part 2 of 4**  
Upon completion of this module, the trainee will be able to describe riser check, alarm check valves, and trim, trim an alarm check valve and replace the faceplate gasket, identify and describe flow switches, tamper switches, and pressure switches, install a flow switch and set the retard device, identify and explain fire department connections and hose stations, explain inspector's test connections and auxiliary drains, explain hydrostatic testing and test pumps, perform a hydrostatic test using a pump, describe antifreeze systems, calculate the specific gravity of an antifreeze solution, and complete a contractor's material & test certificate, and identify a faulty pressure gauge and replace it.

Tuesday, March 8, 2022 4 **Module 18206-13 – Wet Fire Sprinkler Systems Part 3 of 4**  
Upon completion of this module, the trainee will be able to describe riser check, alarm check valves, and trim, trim an alarm check valve and replace the faceplate gasket, identify and describe flow switches, tamper switches, and pressure switches, install a flow switch and set the retard device, identify and explain fire department connections and hose stations, explain inspector’s test connections and auxiliary drains, explain hydrostatic testing and test pumps, perform a hydrostatic test using a pump, describe antifreeze systems, calculate the specific gravity of an antifreeze solution, and complete a contractor’s material & test certificate, and identify a faulty pressure gauge and replace it.  
**TEST Review**

Tuesday, March 15, 2022 4 **Module 18206-13 – Wet Fire Sprinkler Systems Part 4 of 4**  
Upon completion of this module, the trainee will be able to describe riser check, alarm check valves, and trim, trim an alarm check valve and replace the faceplate gasket, identify and describe flow switches, tamper switches, and pressure switches, install a flow switch and set the retard device, identify and explain fire department connections and hose stations, explain inspector’s test connections and auxiliary drains, explain hydrostatic testing and test pumps, perform a hydrostatic test using a pump, describe antifreeze systems, calculate the specific gravity of an antifreeze solution, and complete a contractor’s material & test certificate, and identify a faulty pressure gauge and replace it.  
**TEST #6**

Tuesday, March 22, 2022 4 **Module 18206-13 – Wet Fire Sprinkler Systems - LAB**

Tuesday, March 29, 2022 4 **Module 18207-13 – Dry-Pipe Systems Part 1 of 4**  
Upon completion of this module, the trainee will be able to identify and explain dry-pipe systems and why and where dry pipe systems are used, identify dry-pipe valves and trim, install pressure gauges on an alarm valve, identify and explain air supplies, identify and explain accelerators and exhausters, perform an installation of an accelerator, explain why an exhauster is a quick-opening device and describe possible locations where an exhauster could be installed in a dry pipe system, explain pitching sprinkler piping and auxiliary drains in dry-pipe systems, calculate pitch for dry-pipe systems, identify and explain fire department connections with respect to dry pipe systems, install, set and adjust an air maintenance device, remove and install a faceplate gasket, and reset and troubleshoot a dry-pipe system.

Tuesday, April 5, 2022 4 **Module 18207-13 – Dry-Pipe Systems Part 2 of 4**  
Upon completion of this module, the trainee will be able to identify and explain dry-pipe systems and why and where dry pipe systems are used, identify dry-pipe valves and trim, install pressure gauges on an alarm valve, identify and explain air supplies, identify and explain accelerators and exhausters, perform an installation of an accelerator, explain why an exhauster is a quick-opening device and describe possible locations where an exhauster could be installed in a dry pipe system, explain pitching sprinkler piping and auxiliary drains in dry-pipe systems, calculate pitch for dry-pipe systems, identify and explain fire department connections with respect to dry pipe systems, install, set and adjust an air maintenance device, remove and install a faceplate gasket, and reset and troubleshoot a dry-pipe system.

Tuesday, April 12, 2022 4 **Module 18207-13 – Dry-Pipe Systems Part 3 of 4**  
Upon completion of this module, the trainee will be able to identify and explain dry-pipe systems and why and where dry pipe systems are used, identify dry-pipe valves and trim, install pressure gauges on an alarm valve, identify and explain air supplies, identify and explain accelerators and exhausters, perform an installation of an accelerator, explain why an exhauster is a quick-opening device and describe possible locations where an exhauster could be installed in a dry pipe system, explain pitching sprinkler piping and auxiliary drains in dry-pipe systems, calculate pitch for dry-pipe systems, identify and explain fire department connections with respect to dry pipe systems, install, set and adjust an air maintenance device, remove and install a faceplate gasket, and reset and troubleshoot a dry-pipe system.

**Week of 4/18/2022 -- Spring Break**

Tuesday, April 26, 2022 4 **Module 18207-13 – Dry-Pipe Systems Part 4 of 4**  
Upon completion of this module, the trainee will be able to identify and explain dry-pipe systems and why and where dry pipe systems are used, identify dry-pipe valves and trim, install pressure gauges on an alarm valve, identify and explain air supplies, identify and explain accelerators and exhausters, perform an installation of an accelerator, explain why an exhauster is a quick-opening device and describe possible locations where an exhauster could be installed in a dry pipe system, explain pitching sprinkler piping and auxiliary drains in dry-pipe systems, calculate pitch for dry-pipe systems, identify and explain fire department connections with respect to dry pipe systems, install, set and adjust an air maintenance device, remove and install a faceplate gasket, and reset and troubleshoot a dry-pipe system. **Test Review**

Tuesday, May 3, 2022 4 **Module 18207-13 Dry Pipe Systems - Test #7/LAB**

Tuesday, May 10, 2022 4 **LAB - Water in Drain System**

Tuesday, May 17, 2022 4 LAB - Rigid 300

Saturday 5/21/2021 4 LAB - NFPA 13 Intro/ Material Labeling

Tuesday, May 24, 2022 4 LAB - NFPA 13 Intro

**Semste Hours 80**

# All Classes will be held In-Person

Location **Livermore**

Course III

## Spring 2022

Wednesday, January 12, 2022 4 **Student Orientation - (OJT Process) & Module 18303-13 – Water Supplies Part 1 of 4**

Upon completion of this module, the trainee will be able to recognize federal, state, and jurisdictional requirements for supply and disposal of fire sprinkler system water, identify different water supplies for automatic sprinkler systems, explain the three qualities that are critical to the water supply for fire sprinkler systems, identify types of water storage and explain their usage, describe different water main configurations, perform flow test procedures, plot residual and static pressure on a graph, read a flow test results sheet and determine the number of outlets flowed, hydrant outlet size, and static and residual pressure, fill out a flow test summary sheet, identify and describe backflow preventers and methods of installation, and identify and describe meters used in fire sprinkler systems.

Wednesday, January 19, 2022 4 **Module 18303-13 – Water Supplies Part 2 of 4**

Upon completion of this module, the trainee will be able to recognize federal, state, and jurisdictional requirements for supply and disposal of fire sprinkler system water, identify different water supplies for automatic sprinkler systems, explain the three qualities that are critical to the water supply for fire sprinkler systems, identify types of water storage and explain their usage, describe different water main configurations, perform flow test procedures, plot residual and static pressure on a graph, read a flow test results sheet and determine the number of outlets flowed, hydrant outlet size, and static and residual pressure, fill out a flow test summary sheet, identify and describe backflow preventers and methods of installation, and identify and describe meters used in fire sprinkler systems.

Wednesday, January 26, 2022 4 **Module 18303-13 – Water Supplies Part 3 of 4** Upon completion of this module, the trainee will be able to recognize federal, state, and jurisdictional requirements for supply and disposal of fire sprinkler system water, identify different water supplies for automatic sprinkler systems, explain the three qualities that are critical to the water supply for fire sprinkler systems, identify types of water storage and explain their usage, describe different water main configurations, perform flow test procedures, plot residual and static pressure on a graph, read a flow test results sheet and determine the number of outlets flowed, hydrant outlet size, and static and residual pressure, fill out a flow test summary sheet, identify and describe backflow preventers and methods of installation, and identify and describe meters used in fire sprinkler systems.

**Test Review**

Wednesday, February 2, 2022 4 **Module 18303-13 – Water Supplies Part 4 of 4** Upon completion of this module, the trainee will be able to recognize federal, state, and jurisdictional requirements for supply and disposal of fire sprinkler system water, identify different water supplies for automatic sprinkler systems, explain the three qualities that are critical to the water supply for fire sprinkler systems, identify types of water storage and explain their usage, describe different water main configurations, perform flow test procedures, plot residual and static pressure on a graph, read a flow test results sheet and determine the number of outlets flowed, hydrant outlet size, and static and residual pressure, fill out a flow test summary sheet, identify and describe backflow preventers and methods of installation, and identify and describe meters used in fire sprinkler systems.

**TEST #3**

Wednesday, February 9, 2022 4 **Module 18303-13 - Water Supplies - LAB**

Wednesday, February 16, 2022 4 **AMES / WATTS - Backflow Tests**

Wednesday, February 23, 2022 4 **CPVC RECERTIFICATION - Tim and Pablo also Spears Rep**

Wednesday, March 2, 2022

4 **Module 18304-13 – Fire Pumps Part 1 of 6**

Upon completion of this module, the trainee will be able to explain the basic components and types that make up a fire pump system, identify the NFPA standard that covers the installation of fire pumps, explain the minimum residual pressure in pounds per square inch (psi) that can be used when pumping from a municipal water supply, convert pressure ratings from psi to feet of head and vice versa, explain how to set and align a pump, discuss the different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing of fire pumps, perform a mechanical check of a fire pump system, measure the flow of a system, and identify potential causes for a malfunctioning fire pump.

Wednesday, March 9, 2022

4 **Module 18304-13 – Fire Pumps Part 2 of 6**

Upon completion of this module, the trainee will be able to explain the basic components and types that make up a fire pump system, identify the NFPA standard that covers the installation of fire pumps, explain the minimum residual pressure in pounds per square inch (psi) that can be used when pumping from a municipal water supply, convert pressure ratings from psi to feet of head and vice versa, explain how to set and align a pump, discuss the different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing of fire pumps, perform a mechanical check of a fire pump system, measure the flow of a system, and identify potential causes for a malfunctioning fire pump.

Wednesday, March 16, 2022

4 **Module 18304-13 – Fire Pumps Part 3 of 6**

Upon completion of this module, the trainee will be able to explain the basic components and types that make up a fire pump system, identify the NFPA standard that covers the installation of fire pumps, explain the minimum residual pressure in pounds per square inch (psi) that can be used when pumping from a municipal water supply, convert pressure ratings from psi to feet of head and vice versa, explain how to set and align a pump, discuss the different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing of fire pumps, perform a mechanical check of a fire pump system, measure the flow of a system, and identify potential causes for a malfunctioning fire pump.

Wednesday, March 23, 2022 4 **Module 18304-13 – Fire Pumps Part 4 of 6**  
Upon completion of this module, the trainee will be able to explain the basic components and types that make up a fire pump system, identify the NFPA standard that covers the installation of fire pumps, explain the minimum residual pressure in pounds per square inch (psi) that can be used when pumping from a municipal water supply, convert pressure ratings from psi to feet of head and vice versa, explain how to set and align a pump, discuss the different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing of fire pumps, perform a mechanical check of a fire pump system, measure the flow of a system, and identify potential causes for a malfunctioning fire pump.

Wednesday, March 30, 2022 4 **Module 18304-13 – Fire Pumps Part 5 of 6** Upon  
completion of this module, the trainee will be able to explain the basic components and types that make up a fire pump system, identify the NFPA standard that covers the installation of fire pumps, explain the minimum residual pressure in pounds per square inch (psi) that can be used when pumping from a municipal water supply, convert pressure ratings from psi to feet of head and vice versa, explain how to set and align a pump, discuss the different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing of fire pumps, perform a mechanical check of a fire pump system, measure the flow of a system, and identify potential causes for a malfunctioning fire pump.  
**TEST Review**

Wednesday, April 6, 2022 4 **Module 18304-13 – Fire Pumps Part 6 of 6** Upon  
completion of this module, the trainee will be able to explain the basic components and types that make up a fire pump system, identify the NFPA standard that covers the installation of fire pumps, explain the minimum residual pressure in pounds per square inch (psi) that can be used when pumping from a municipal water supply, convert pressure ratings from psi to feet of head and vice versa, explain how to set and align a pump, discuss the different types of and requirements for fire pump controllers, discuss monitoring requirements for fire for the pumps, describe acceptance testing of fire pumps, perform a mechanical check of a fire pump system, measure the flow of a system, and identify potential causes for a malfunctioning fire pump.  
**TEST #4**

Wednesday, April 13, 2022 4 **\*\*FIRE PUMP LAB TBD\*\***

**Week of 4/18/2021 --- SPRING BREAK**

Wednesday, April 27, 2022 4 **Fundamentals of Crew Leadership**

Wednesday, May 4, 2022 4 **Fundamentals of Crew Leadership**

Wednesday, May 11, 2022 4 **Fundamentals of Crew Leadership**

Wednesday, May 18, 2022 4 **NFPA Q&A Code Requirements**

Saturday, May 21, 2022 4 **NFPA Q&A Code Requirements**

Wednesday, May 25, 2022 4 **MOCK TEST - NFPA Q&A Code Requirements**

**Semster Hours 80**

# All Classes will be held via Zoom

Location	Livermore	
Course	IV	
<b>Spring 2022 Semester</b>		
Wednesday, January 12, 2022	4	<p><b>Student Orientation - (OJT Process) &amp; (Module 18404-13 – Introductory Skills for the Foreman Part 1 of 3)</b></p> <p>Upon completion of this module, the trainee will be able to explain the foreman’s responsibilities to the project coordinating staff or project owner, explain job safety responsibilities, describe job cleanliness and material organization, explain responsibilities for project close-out, describe project layout and coordination, identify and describe the scope of project and the scope letter, describe the job specifications and project drawings, record changes on a shop drawing for as-builts, complete daily, weekly time, and progress reports, and identify and explain materials documentation.</p>
Wednesday, January 19, 2022	4	<p><b>Module 18404-13 – Introductory Skills for the Foreman Part 2 of 3</b> Upon completion of this module, the trainee will be able to explain the foreman’s responsibilities to the project coordinating staff or project owner, explain job safety responsibilities, describe job cleanliness and material organization, explain responsibilities for project close-out, describe project layout and coordination, identify and describe the scope of project and the scope letter, describe the job specifications and project drawings, record changes on a shop drawing for as-builts, complete daily, weekly time, and progress reports, and identify and explain materials documentation.</p> <p><b>TEST Review</b></p>
Wednesday, January 26, 2022	4	<p><b>Module 18404-13 – Introductory Skills for the Foreman Part 3 of 3</b> Upon completion of this module, the trainee will be able to explain the foreman’s responsibilities to the project coordinating staff or project owner, explain job safety responsibilities, describe job cleanliness and material organization, explain responsibilities for project close-out, describe project layout and coordination, identify and describe the scope of project and the scope letter, describe the job specifications and project drawings, record changes on a shop drawing for as-builts, complete daily, weekly time, and progress reports, and identify and explain materials documentation.</p> <p><b>TEST #4</b></p>
Wednesday, February 2, 2022	4	<p><b>LAB Module 18404-13 - Introductory Skills for the Foreman</b></p>
Wednesday, February 9, 2022	4	<p><b>Module 18405-13 – Procedures and Documentation Part 1 of 2</b></p> <p>Upon completion of this module, the trainee will be able to recognize the consequences of improper system installation, identify the five Cs of project documentation, recognize unsafe acts and conditions on a worksite, identify the hazards associated with specific tasks, discuss the procedures for responding to an accident, describe the procedures for emergency response to water damage, and explain how to handle a water damage claim.</p>

Wednesday, February 16, 2022

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**Module 18405-13 – Procedures and Documentation Part 2 of 2**

Upon completion of this module, the trainee will be able to recognize the consequences of improper system installation, identify the five Cs of project documentation, recognize unsafe acts and conditions on a worksite, identify the hazards associated with specific tasks, discuss the procedures for responding to an accident, describe the procedures for emergency response to water damage, and explain how to handle a water damage claim.

**TEST #5**

Wednesday, February 24, 2021

4

**Module 18402-13 – Inspection, Testing, and Maintenance Part 1 of 4**

Upon completion of this module, the trainee will be able to describe the reasons for unsatisfactory sprinkler performance, explain initial system testing and inspections for aboveground, underground, and overhead pipe, describe the flushing process for underground piping/mains, describe the importance of periodic inspections of sprinkler systems, explain the report of inspection and how it must relate to the chapters included in *NFPA 25*, explain the difference between warranty repair and owner repair, explain the general preparations for system repair, describe the specific repair considerations for deluge and preaction systems, describe the general preparation procedures for inspection, maintenance, and repair of special systems, explain the required procedures to test all types of valves, perform a main drain test, and complete inspection and testing of water-based and wet standpipe systems and complete the required documentation.

Wednesday, March 2, 2022

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**Module 18402-13 – Inspection, Testing, and Maintenance Part 2 of 4**

Upon completion of this module, the trainee will be able to describe the reasons for unsatisfactory sprinkler performance, explain initial system testing and inspections for aboveground, underground, and overhead pipe, describe the flushing process for underground piping/mains, describe the importance of periodic inspections of sprinkler systems, explain the report of inspection and how it must relate to the chapters included in *NFPA 25*, explain the difference between warranty repair and owner repair, explain the general preparations for system repair, describe the specific repair considerations for deluge and preaction systems, describe the general preparation procedures for inspection, maintenance, and repair of special systems, explain the required procedures to test all types of valves, perform a main drain test, and complete inspection and testing of water-based and wet standpipe systems and complete the required documentation.

Wednesday, March 9, 2022	4	<p><b>Module 18402-13 – Inspection, Testing, and Maintenance Part 3 of 4</b> Upon completion of this module, the trainee will be able to describe the reasons for unsatisfactory sprinkler performance, explain initial system testing and inspections for aboveground, underground, and overhead pipe, describe the flushing process for underground piping/mains, describe the importance of periodic inspections of sprinkler systems, explain the report of inspection and how it must relate to the chapters included in NFPA 25, explain the difference between warranty repair and owner repair, explain the general preparations for system repair, describe the specific repair considerations for deluge and preaction systems, describe the general preparation procedures for inspection, maintenance, and repair of special systems, explain the required procedures to test all types of valves, perform a main drain test, and complete inspection and testing of water-based and wet standpipe systems and complete the required documentation. <b>TEST Review</b></p>
Wednesday, March 16, 2022	4	<p><b>Module 18402-13 – Inspection, Testing, and Maintenance Part 4 of 4</b> Upon completion of this module, the trainee will be able to describe the reasons for unsatisfactory sprinkler performance, explain initial system testing and inspections for aboveground, underground, and overhead pipe, describe the flushing process for underground piping/mains, describe the importance of periodic inspections of sprinkler systems, explain the report of inspection and how it must relate to the chapters included in NFPA 25, explain the difference between warranty repair and owner repair, explain the general preparations for system repair, describe the specific repair considerations for deluge and preaction systems, describe the general preparation procedures for inspection, maintenance, and repair of special systems, explain the required procedures to test all types of valves, perform a main drain test, and complete inspection and testing of water-based and wet standpipe systems and complete the required documentation. <b>TEST #2</b></p>
Wednesday, March 23, 2022	4	<b>**LAB - RIGID PIPE MACHINE REPAIR &amp; TROUBLE**</b>
Wednesday, March 30, 2022	4	<b>LEADERSHIP LADDER</b>
Wednesday, April 6, 2022	4	<b>LEADERSHIP LADDER</b>
Wednesday, April 13, 2022	4	<b>LEADERSHIP LADDER</b>
<b>Week of 4/18/2021 --- SPRING BREAK</b>		
Wednesday, April 27, 2022	4	<b>LEADERSHIP LADDER</b>
Wednesday, May 4, 2022	4	<b>5 Year Inpection - Fire Chief and Kamiko (Cal-Fire) to Speak -?????</b>

Wednesday, May 11, 2022	4	*CALFIRE PREPARATION COURSE*
Wednesday, May 18, 2022	4	*CALFIRE PREPARATION COURSE*
Saturday, May 21, 2022	4	*CALFIRE PREPARATION COURSE*
Wednesday, May 25, 2022	4	*CALFIRE PREPARATION COURSE*
<b>Semester Required Hours:</b>	<b>80</b>	