

All Classes will be held In-Person

Location **Sacramento**

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

LAB - Module 18205-13 – Standard Spray Fire Sprinklers

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

LAB - Module 18206-13 – Wet Fire Sprinkler Systems

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	<p>Module 18207-13 – Dry-Pipe Systems Part 3 of 4</p> <p>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.</p>
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Week of 4/18/2022 -- Spring Break

Tuesday, April 26, 2022	4	<p>Module 18207-13 – Dry-Pipe Systems Part 4 of 4</p> <p>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</p>
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Tuesday, May 3, 2022	4	TEST # 7 & LAB - Module 18207-13 Dry Pipes
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Tuesday, May 10, 2022	4	LAB - Water in Drain System
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Tuesday, May 17, 2022	4	LAB - Rigid 300
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Saturday, May 21, 2022	4	LAB - NFPA 13 Intro/ Material Labeling
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Tuesday, May 24, 2022	4	LAB - NFPA 13 Intro
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Semste Hours	80	
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All Classes will be held In-Person

Location **Sacramento**

Course III

Spring 2022

Thursday, January 13, 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.

Thursday, January 20, 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.

Thursday, January 27, 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

Thursday, February 3, 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**

Thursday, February 10, 2022 4 **Module 18303-13 - Water Supplies - LAB**

Thursday, February 17, 2022 4 **AMES / WATTS - Backflow Tests**

Thursday, February 24, 2022 4 **CPVC RECERTIFICATION - Tim and Pablo also Spears Rep**

Thursday, March 3, 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.

Thursday, March 10, 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.

Thursday, March 17, 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.

Thursday, March 24, 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.

Thursday, March 31, 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

Thursday, April 7, 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

Thursday, April 14, 2022 4 ****FIRE PUMP LAB TBD****

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

Thursday, April 28, 2022 4 **Fundamentals of Crew Leadership**

Thursday, May 5, 2022 4 **Fundamentals of Crew Leadership**

Thursday, May 12, 2022 4 **Fundamentals of Crew Leadership**

Thursday, May 19, 2022 4 **NFPA Q&A Code Requirements**

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

Thursday, May 26, 2022 4 **MOCK TEST - NFPA Q&A Code Requirements**

Semster Hours 80