

XIV. MINIMUM STANDARDS FOR FIRE APPARATUS DRIVER/OPERATOR

A. Reference Materials

The jurisdictional entity in which the Driver/Operator Personnel serves must have access to the most current editions of following training manuals:

NFPA

NFPA 1002: *Standard for Fire Apparatus Driver/Operator Professional Qualifications*

NFPA 1451: *Standard for a Fire Service Vehicle Operations Training Program*

NFPA 1500: *Standard on Fire Department Occupational Safety and Health Program*

B. The certification Program offers four (4) different of certifications for Driver/Operator:

1. Minimum Requirements: Driver/Operator – Pumper

The applicant must:

a. Complete one (1) of the following:

- i. TCFP Driver/Operator – Pumper certification; or
- ii. NFPA 1002: General Requirements (Ch 4) and Apparatus Equipped with Fire Pump (Ch 5); or
- iii. SFFMA Driver/Operator – Pumper curriculum

b. SFFMA Driver/Operator certifications with an effective date prior to January 1, 2019 are grandfathered into the Driver/Operator – Pumper certification.

2. Driver/Operator – Aerial

The applicant must:

a. hold or apply concurrently for the following SFFMA certifications:

- i. Firefighter I

b. complete one (1) of the following:

- i. TCFP Driver/Operator-Aerial Apparatus certification; or
- ii. NFPA 1002: General Requirements (Ch 4) and Apparatus Equipped with an Aerial Device (Ch 6); or
- iii. SFFMA Driver/Operator – Aerial curriculum

3. Driver/Operator – Wildland

The applicant must:

a. complete one (1) of the following:

- i. NFPA 1002: General Requirements (Ch 4) and Wildland Fire Apparatus (Ch 8); or
- ii. SFFMA Driver/Operator – Wildland curriculum

4. Driver/Operator – Mobile Water Supply Apparatus

The applicant must:

b. complete one (1) of the following:

- i. NFPA 1002: General Requirements (Ch 4) and Mobile Water Supply Apparatus (Ch 10); or
- ii. SFFMA Driver/Operator – Mobile Water Supply Apparatus curriculum

C. Curricula for Driver/Operator - Pumper

DO-P.01 Trainee shall perform visual and operational checks on the systems and components specified in the following list, given a fire department pumper vehicle, its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status of the vehicle is verified:

NFPA 1002 – 4.2.1

- | | |
|----------------------|-------------------------------------|
| A. Battery(ies) | G. Oil |
| B. Braking system | H. Tires |
| C. Coolant system | I. Steering system |
| D. Electrical system | J. Belts |
| E. Fuel | K. Tools, appliances, and equipment |
| F. Hydraulic fluids | L. Built-in safety features |

DO-P.02 Trainee shall document the visual and operational checks, given a fire department pumper vehicle, its maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported.

NFPA 1002-4.2.2

DO-P.03 Trainee shall operate a fire apparatus, given a fire department pumper vehicle and a predetermined route on a public way that incorporates the maneuvers and features that the driver/operator is expected to encounter during normal operations, so that the vehicle is operated in compliance with all applicable state and local laws and departmental rules and regulations.

NFPA 1002-4.3.1

DO-P.04 Trainee shall back a fire department pumper vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and restricted spaces 12' (3.7m) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.

NFPA 1002-4.3.2

DO-P.05 Trainee shall maneuver a fire department pumper vehicle around obstructions on a roadway while moving forward and in reverse, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.

NFPA 1002 – 4.3.3

DO-P.06 Trainee shall turn a fire apparatus 180 degrees within a confined space, given a fire department pumper vehicle, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space.

NFPA 1002-4.3.4

DO-P.07 Trainee shall maneuver a fire apparatus in areas with restricted horizontal and vertical clearances, given a fire department pumper vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator judges the ability of the vehicle to pass through the openings and so that no obstructions are struck.

NFPA 1002 – 4.3.5

DO-P.08 Trainee shall operate a vehicle using defensive driving techniques, given an assignment and a fire department pumper vehicle, so that control of the vehicle is maintained.

NFPA 1002 – 4.3.6

DO-P.09 Trainee, given a fire department pumper vehicle, shall operate all fixed systems and equipment on the vehicle not addressed elsewhere in this standard, given systems and equipment, manufacturer's specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.

NFPA 1002 – 4.3.7

DO-P.10 Trainee shall initiate the response to a reported emergency, given the report of an emergency, fire department SOPs, and communications equipment, so that all necessary information is obtained, communications equipment is operated correctly, and the information is relayed promptly and accurately to the dispatch center.

NFPA 1002 – 4.4.1

DO-P.11 Trainee shall receive a telephone call, given a fire department phone, so that procedures for answering the phone are used and the caller's information is relayed.

NFPA 1002 – 4.4.2

DO-P.12 Trainee shall transmit and receive messages via the fire department radio, given a fire department radio and operating procedures, so that the information is accurate, complete, clear, and relayed within the time established by the AHJ.

NFPA 1002 – 4.4.3

DO-P.13 Trainee shall activate emergency procedures, given an emergency situation and department SOPs, so that emergency actions can be initiated.

NFPA 1002 – 4.4.4

DO-P.14 Trainee shall perform the visual and operational checks on the systems and components specified in the following list in addition to those in 4.2.1, given a fire department pumper, its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status of the pumper is verified:

NFPA 1002-5.1.2

- A. Water tank and other extinguishing agent levels (if applicable)
- B. Pumping systems
- C. Foam systems

DO-P.15 Trainee shall respond on apparatus to an emergency scene, given safety equipment as provided by the AHJ, so that the apparatus is correctly mounted and dismounted and seat belts are used while the vehicle is in motion.

NFPA 1002-5.2.1

DO-P.16 Trainee shall establish and operate in work areas at emergency and nonemergency scenes, given safety equipment, traffic and scene control devices, emergency and nonemergency scenes, traffic and other hazards, an assignment, and SOPs, so that procedures are followed, safety equipment is utilized, protected work areas are established as directed using traffic and scene control devices, and the driver/operator performs assigned tasks only in established, protected work areas.

NFPA 1002 – 5.2.2

DO-P.17 Trainee shall connect a fire department pumper to a water supply as a member of a team, given supply or intake hose, hose tools, and a fire hydrant or static water source, so that connections are tight and water flow is unobstructed.

NFPA 1002 – 5.2.3

DO-P.18 Trainee shall produce effective hand or master streams, given the sources specified in the following list, so that the pump is engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is monitored for potential problems:

NFPA 1002 – 5.2.4

- A. Internal tank
- B. Pressurized source
- C. Static source
- D. Transfer from internal tank to external source

DO-P.19 Trainee shall pump a supply line of 2½". (65 mm) or larger, given a relay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the correct pressure and flow are provided to the next pumper in the relay.

NFPA 1002 – 5.2.5

DO-P.20 Trainee shall produce a foam fire stream, given foam-producing equipment, so that proportioned foam is provided.

NFPA 1002 – 5.2.6

DO-P.21 Trainee shall supply water to fire sprinkler and standpipe systems, given specific system information and a fire department pumper, so that water is supplied to the system at the correct volume and pressure.

NFPA 1002 – 5.2.6

2. **Driver/Operator - Aerial**

DO-A.01 Trainee shall perform visual and operational checks on the systems and components specified in the following list, given a fire department aerial vehicle, its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status of the vehicle is verified:

NFPA 1002 – 4.2.1

- | | |
|----------------------|-------------------------------------|
| A. Battery(ies) | G. Oil |
| B. Braking system | H. Tires |
| C. Coolant system | I. Steering system |
| D. Electrical system | J. Belts |
| E. Fuel | K. Tools, appliances, and equipment |
| F. Hydraulic fluids | L. Built-in safety features |

DO-A.02 Trainee shall document the visual and operational checks, given a fire department aerial vehicle, its maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported.

NFPA 1002-4.2.2

DO-A.03 Trainee shall operate a fire apparatus, given a fire department aerial vehicle and a predetermined route on a public way that incorporates the maneuvers and features that the driver/operator is expected to encounter during normal operations, so that the vehicle is operated in compliance with all applicable state and local laws and departmental rules and regulations.

NFPA 1002-4.3.1

DO-A.04 Trainee shall back a fire department aerial vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and restricted spaces 12' (3.7m) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.

NFPA 1002-4.3.2

DO-A.05 Trainee shall maneuver a fire department aerial vehicle around obstructions on a roadway while moving forward and in reverse, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.

NFPA 1002 – 4.3.3

DO-A.06 Trainee shall turn a fire apparatus 180 degrees within a confined space, given a fire department aerial vehicle, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space.

NFPA 1002-4.3.4

- DO-A.07 Trainee shall maneuver a fire apparatus in areas with restricted horizontal and vertical clearances, given a fire department aerial vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator judges the ability of the vehicle to pass through the openings and so that no obstructions are struck.
- NFPA 1002 – 4.3.5**
- DO-A.08 Trainee shall operate a vehicle using defensive driving techniques, given an assignment and a fire department aerial vehicle, so that control of the vehicle is maintained.
- NFPA 1002 – 4.3.6**
- DO-A.09 Trainee, given a fire department aerial vehicle, shall operate all fixed systems and equipment on the vehicle not addressed elsewhere in this standard, given systems and equipment, manufacturer’s specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.
- NFPA 1002 – 4.3.7**
- DO-A.10 Trainee shall perform the visual and operation checks on the systems and components specified in the following list in addition to those specified in DO-A.01, given a fire department aerial apparatus, and policies and procedures of the jurisdiction, so that the operational readiness of the aerial apparatus is verified:
- NFPA 1002 – 6.1.1**
- | | |
|------------------------------------|---------------------------------|
| A. Cable systems (if applicable) | F. Aerial device safety systems |
| B. Aerial device hydraulic systems | G. Breathing air systems |
| C. Slides and rollers | H. Communication systems |
| E. Stabilizing systems | |
- DO-A.11 Trainee shall maneuver and position an aerial apparatus, given an aerial apparatus, an incident location, a situation description, and an assignment, so that the apparatus is positioned for correct aerial device deployment.
- NFPA 1002 – 6.2.1**
- DO-A.12 Trainee shall stabilize aerial apparatus, given a positioned vehicle and the manufacturer’s recommendations, so that power can be transferred to the aerial device hydraulic system and the device can be deployed.
- NFPA 1002 – 6.2.2**
- DO-A.13 Trainee shall maneuver and position the aerial device from each control station, given an incident location, a situation description, and an assignment, so that the aerial device is positioned to accomplish the assignment.
- NFPA 1002 – 6.2.3**
- DO-A.14 Trainee shall lower an aerial device using the emergency operating system, given an aerial device, so that the aerial device is lowered to its bedded position.
- NFPA 1002 – 6.2.4**

DO-A.15 Trainee shall deploy and operate an elevated master stream, given an aerial device, a master stream device, and a desired flow, so that the stream is effective.

NFPA 1002 – 6.2.5

4. **Driver/Operator - Wildland**

DO-W.01 Trainee shall perform visual and operational checks on the systems and components specified in the following list, given a fire department wildland vehicle, its manufacturer’s specifications, and policies and procedures of the jurisdiction, so that the operational status of the vehicle is verified:

NFPA 1002 – 4.2.1

- | | |
|----------------------|-------------------------------------|
| A. Battery(ies) | G. Oil |
| B. Braking system | H. Tires |
| C. Coolant system | I. Steering system |
| D. Electrical system | J. Belts |
| E. Fuel | K. Tools, appliances, and equipment |
| F. Hydraulic fluids | L. Built-in safety features |

DO-W.02 Trainee shall document the visual and operational checks, given a fire department wildland vehicle, its maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported.

NFPA 1002-4.2.2

DO-W.03 Trainee shall operate a fire apparatus, given a fire department wildland vehicle and a predetermined route on a public way that incorporates the maneuvers and features that the driver/operator is expected to encounter during normal operations, so that the vehicle is operated in compliance with all applicable state and local laws and departmental rules and regulations.

NFPA 1002-4.3.1

DO-W.04 Trainee shall back a fire department wildland vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and restricted spaces 12’ (3.7m) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.

NFPA 1002-4.3.2

DO-W.05 Trainee shall maneuver a fire department wildland vehicle around obstructions on a roadway while moving forward and in reverse, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.

NFPA 1002 – 4.3.3

DO-W.06 Trainee shall turn a fire apparatus 180 degrees within a confined space, given a fire department wildland vehicle, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space.

NFPA 1002-4.3.4

DO-W.07 Trainee shall maneuver a fire apparatus in areas with restricted horizontal and vertical clearances, given a fire department wildland vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator judges the ability of the vehicle to pass through the openings and so that no obstructions are struck.

NFPA 1002 – 4.3.5

DO-W.08 Trainee shall operate a vehicle using defensive driving techniques, given an assignment and a fire department wildland vehicle, so that control of the vehicle is maintained.

NFPA 1002 – 4.3.6

DO-W.09 Trainee, given a fire department wildland vehicle, shall operate all fixed systems and equipment on the vehicle not addressed elsewhere in this standard, given systems and equipment, manufacturer's specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.

NFPA 1002 – 4.3.7

DO-W.10 Perform the visual and operational checks on the systems and components specified in the following list, in addition to those in DO-W.01, given a wildland fire apparatus, its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status is verified:

NFPA 1002-8.1.1

- A. Water tank and other extinguishing agent levels (if applicable)
- B. Pumping systems
- C. Foam systems

DO- W.11 Trainee shall maneuver a wildland fire apparatus off of a public roadway, around obstructions on a roadway while moving forward and in reverse, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.

NFPA 1002 – 8.1.2

DO-W.12 Trainee shall produce a foam fire stream, given the sources specified in the following list, so that the pump is engaged, all pressure-control and vehicle safety devices are set, the rated flow of the nozzle is achieved, and the apparatus is monitored for potential problems:

- 1. Water tank
- 2. * Pressurized source
- 3. Static source

NFPA 1002 – 8.2.1

DO-W.13 Trainee, given a relay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the correct pressure and flow are provided to the next pumper in the relay.

NFPA 1002 – 8.2.2

DO-W.14 Trainee shall produce a foam fire stream, given foam-producing equipment, so that proportioned foam is provided.

NFPA 1002 – 8.2.3

4. **Driver/Operator - Mobile Water Supply Apparatus**

DO-T.01 Trainee shall perform visual and operational checks on the systems and components specified in the following list, given a fire department mobile water supply vehicle, its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status of the vehicle is verified:

NFPA 1002 – 4.2.1

- | | |
|----------------------|-------------------------------------|
| A. Battery(ies) | G. Oil |
| B. Braking system | H. Tires |
| C. Coolant system | I. Steering system |
| D. Electrical system | J. Belts |
| E. Fuel | K. Tools, appliances, and equipment |
| F. Hydraulic fluids | L. Built-in safety features |

DO-T.02 Trainee shall document the visual and operational checks, given a fire department mobile water supply vehicle, its maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported.

NFPA 1002-4.2.2

DO-T.03 Trainee shall operate a fire apparatus, given a fire department mobile water supply vehicle and a predetermined route on a public way that incorporates the maneuvers and features that the driver/operator is expected to encounter during normal operations, so that the vehicle is operated in compliance with all applicable state and local laws and departmental rules and regulations.

NFPA 1002-4.3.1

DO-T.04 Trainee shall back a fire department mobile water supply vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and restricted spaces 12' (3.7m) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.

NFPA 1002-4.3.2

DO-T.05 Trainee shall maneuver a fire department mobile water supply vehicle around obstructions on a roadway while moving forward and in reverse, given a fire apparatus; a spotter where the spotter assists the driver in performing the maneuver; and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.

NFPA 1002 – 4.3.3

- DO-T.06 Trainee shall turn a fire apparatus 180 degrees within a confined space, given a fire department mobile water supply vehicle, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space.
- NFPA 1002-4.3.4**
- DO-T.07 Trainee shall maneuver a fire apparatus in areas with restricted horizontal and vertical clearances, given a fire department mobile water supply vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator judges the ability of the vehicle to pass through the openings and so that no obstructions are struck.
- NFPA 1002 – 4.3.5**
- DO-T.08 Trainee shall operate a vehicle using defensive driving techniques, given an assignment and a fire department mobile water supply vehicle, so that control of the vehicle is maintained.
- NFPA 1002 – 4.3.6**
- DO-T.09 Trainee, given a fire department mobile water supply vehicle, shall operate all fixed systems and equipment on the vehicle not addressed elsewhere in this standard, given systems and equipment, manufacturer’s specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.
- NFPA 1002 – 4.3.7**
- DO-T.10 Perform the visual and operational checks on the systems and components specified in the following list, in addition to those in DO-T.01, given a wildland fire apparatus, its manufacturer’s specifications, and policies and procedures of the jurisdiction, so that the operational status is verified:
- NFPA 1002 10.1.1**
- A. Water tank and other extinguishing agent levels (if applicable)
 - B. Pumping system (if applicable)
 - C. Rapid dump system (if applicable)
 - D. Foam system (if applicable)
- DO-T.11 Trainee, given a fill site location and one or more supply hose, shall maneuver a mobile water supply apparatus at a water shuttle fill site, around obstructions while moving forward and in reverse, so that the apparatus is positioned, supply hose are attached to the intake connections without having to stretch additional hose, and no objects are struck at the fill site.
- NFPA 1002 – 10.2.1**
- DO-T.12 Trainee, given a dump site and a portable water tank, shall maneuver a mobile water supply apparatus at a water shuttle dump site, around obstructions while moving forward and in reverse, so that all of the water being discharged from the apparatus enters the portable tank and no objects are struck at the dump site, and operate the fire pump or rapid water dump system.
- NFPA 1002 – 10.2.2**

DO-T.13 Trainee shall establish a water shuttle dump site, given two or more portable water tanks, low-level strainers, water transfer equipment, fire hose, and a fire apparatus equipped with a fire pump, so that the tank being drafted from is kept full at all times, the tank being dumped into is emptied first, and the water is transferred from one tank to the next

NFPA 1002 – 10.2.3