



New Hampshire Department of Safety  
Division of Fire Standards and Training and Emergency Medical Services  
33 Hazen Drive, Concord, NH 03305 1-800-371-4503 or 603-223-4200 FAX: 603-271-1091

## FIRE STANDARDS AND TRAINING COMMISSION

### CURRICULUM DEVELOPMENT AND APPROVAL GUIDE

#### Driver Operator Aerial Apparatus NFPA 1002 2017

Approved by the New Hampshire Fire Standards and Training Commission

Commission Approval

Date:

9/5/19

## Curriculum Information Sheet

Name of Certification:  
(including NFPA Standard)

Standard for Fire Apparatus Driver/Operator Aerial

NFPA Standards #: 1002 Edition Date: 2017 Next Edition: 2022

Type of Certificate:

NH Certification: \_\_\_\_\_ Pro-Board Certified X

Certificate of Attendance: \_\_\_\_\_

Curriculum Committee  
Approval

Yes

June 6, 2019

Date: \_\_\_\_\_

Proboard/Certification  
requirements:

*Please attached all job sheets  
and NFPA matrix*

Question bank validation: Pending

Number of exam questions: 50

Job Sheets updated and formatted: Yes

NFPA Matrix: Pending

Reference Material for Students:  
Include edition numbers

IFSTA Pumping and Aerial Driver/Operator Handbook 3<sup>rd</sup> Edition  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Class Size:

Min:

8

Max:

16

Number of Hours:

32

Module Breakdown:

1 Understanding Aerial Apparatus Hours: 4

2 Operating Aerial Apparatus Hours: 12

3 Maintaining Aerial Apparatus Hours: 4

4 Aerial Apparatus on the Fire ground Hours: 12

Prerequisites:

Valid Driver's License

Driver/Operator All Vehicle or Emergency Vehicle

Firefighter I

Requirements for Testing:

Successful completion of all training requirements  
\_\_\_\_\_

What type of factor determines  
successful completion:

Attach sample schedule of proposed training program:

Yes x No \_\_\_\_\_

Attach roster of all visiting committee members

Yes x No \_\_\_\_\_

Public Hearing Dates

Daytime:

Evening:

60 day comment period window

*Please attach all public comment material to this document*

Preliminary Commission  
Approval

J. T. [Signature]

Date:

6/6/19

## **Driver Operator – Aerial Apparatus**

The Fire Standards and Training Commission is seeking public comment on the following revision of the Driver Operator – Aerial Apparatus NFPA 1002 program.

The proposed program recommends little change to the existing program. Below is a highlight of the changes.

- **NFPA Standard Changes:**
  - None
- **Program Changes:**
  - Modified delivery format to decrease lecture and increase hands-on & small group activities
  - Revised & Re-ordered course outline to account for delivery format changes
  - Revised Skill Sheets for certification testing

**Public Hearings held: July 10, 2019 at 3:00PM and 5:00PM**

- **Public Hearing Information attached**

**Public comment period June 17, 2019 through August 16, 2019.**

- **There were no public comments submitted**

## Driver / Operator – Aerial Apparatus Sample Course Schedule

### Day Delivery

Day 1	0800-1200	Module 1: Understanding Aerial Apparatus	All Students
	1230-1630	Module 2: Operating Aerial Apparatus, Block 1	
Day 2A	0800-1200	Module 2: Operating Aerial Apparatus, Block 2	Group A
	1230-1630	Module 2: Operating Aerial Apparatus, Block 3	
Day 2B	0800-1200	Module 2: Operating Aerial Apparatus, Block 2	Group B
	1230-1630	Module 2: Operating Aerial Apparatus, Block 3	
Day 3	0800-1200	Module 3: Maintaining Aerial Apparatus	All Students
	1230-1630	Module 4: Aerial Apparatus on the Fire Ground, Block 1	
Day 4A	0800-1200	Module 4: Aerial Apparatus on the Fire Ground, Block 2	Group A
	1230-1630	Module 4: Aerial Apparatus on the Fire Ground, Block 3	
Day 4B	0800-1200	Module 4: Aerial Apparatus on the Fire Ground, Block 2	Group B
	1230-1630	Module 4: Aerial Apparatus on the Fire Ground, Block 3	

Exam	0800-1200	Written & Practical Skills Exam	Group A
	1230-1630		Group B

### Evening Delivery

Night 1	1800-2200	Module 1: Understanding Aerial Apparatus	All Students
Night 2	1800-2200	Module 2: Operating Aerial Apparatus, Block 1	All Students
Day 1A	0800-1200	Module 2: Operating Aerial Apparatus, Block 2	Group A
	1200-1630	Module 2: Operating Aerial Apparatus, Block 3	
Day 1B	0800-1200	Module 2: Operating Aerial Apparatus, Block 2	Group B
	1200-1630	Module 2: Operating Aerial Apparatus, Block 3	
Night 3	1800-2200	Module 3: Maintaining Aerial Apparatus	All Students
Night 4	1800-2200	Module 4: Aerial Apparatus on the Fire Ground, Block 1	All Students
Day 2A	0800-1200	Module 4: Aerial Apparatus on the Fire Ground, Block 2	Group A
	1200-1630	Module 4: Aerial Apparatus on the Fire Ground, Block 3	
Day 2B	0800-1200	Module 4: Aerial Apparatus on the Fire Ground, Block 2	Group B
	1200-1630	Module 4: Aerial Apparatus on the Fire Ground, Block 3	

Exam	0800-1200	Written & Practical Skills Exam	Group A
	1230-1630		Group B

## **NFPA 1002-2017 VISITING COMMITTEE ROSTER**

- 1. Eric Uitts**
- 2. Robert Field**
- 3. Andy Parent**
- 4. John Uitts**
- 5. David Quick**
- 6. Scott Cathy**
- 7. Rick Payne**
- 8. Jeff Phillips**
- 9. Dan Tice**
- 10. Andy Anderson**
- 11. Scott Doherty**

## Aerial Apparatus Checks Skill Sheet DOA-1

State of New Hampshire  
Department of Safety  
Division of Fire Standards & Training and Emergency Medical Services  
Driver / Operator – Aerial Apparatus Practical Exam

Candidate: \_\_\_\_\_

Date: \_\_\_\_\_

Time Allowed: TBD

Evaluator: \_\_\_\_\_

Total Time: \_\_\_\_\_

<b>Walk-Around / Visual Checks</b>		
Checks for obvious apparatus damage	1	
Checks condition of Apparatus Frame / Torque Box / Cradle	1	
Checks Hydraulic Fluid level & condition	1	
Checks condition of Stabilization System, including: <ul style="list-style-type: none"> <li>• Controls</li> <li>• Stabilizers</li> <li>• Hydraulic hoses, fittings, &amp; cylinders</li> <li>• Plates / Pads</li> </ul>	1	
Checks condition of Aerial Device, including: <ul style="list-style-type: none"> <li>• Controls</li> <li>• Aerial Ladder / Platform</li> <li>• Hydraulic hoses, fittings, &amp; cylinders</li> <li>• Cables &amp; sheaves</li> <li>• Load charts &amp; inclinometers</li> <li>• Lighting</li> <li>• Mounted Equipment</li> </ul>	1	
Checks condition of the Ladder Pipe / Waterway	1	
<b>Operational Checks</b>	1	
Checks the Stabilization System	1	
Checks the Aerial Device, including: <ul style="list-style-type: none"> <li>• Raise / Rotate (Left &amp; Right) / Extend</li> <li>• Cables &amp; sheaves</li> <li>• Operation from all control stations (as applicable)</li> </ul>	1	
Checks the Safety Systems & Interlocks, including: <ul style="list-style-type: none"> <li>• Stabilizer / Aerial interlock</li> <li>• Aerial / Stabilizer interlock</li> <li>• Rotation interlock</li> </ul>	1	

Checks the Waterway	1	
Checks the Communications System	1	
Checks the Breathing Air System (if applicable)	1	
Checks the Emergency Pump	1	
<b>Documentation</b>	1	
Completes Aerial Device Check form	1	
Completes Aerial Device Maintenance / Repair form if deficiencies are found	1	
<b>Total</b>	<b>17</b>	

**Critical Criteria**

- \_\_\_\_\_ Failure to complete 17 steps in a safe manner
- \_\_\_\_\_ Failure to verify that apparatus is secure (parking brake / front axle brake applied & chocks set) prior to starting Walk-Around / Visual Checks
- \_\_\_\_\_ Failure to confirm that apparatus is positioned appropriately on a surface that will adequately support the weight of the stabilized apparatus prior to starting Operational Checks

Circle one:                    1<sup>st</sup> Attempt                    Retest

**Document all reasons for not awarding points or for checking any critical criteria below:**



## Aerial Apparatus Positioning Skill Sheet DOA-2

State of New Hampshire  
Department of Safety  
Division of Fire Standards & Training and Emergency Medical Services  
Driver / Operator – Aerial Apparatus Practical Exam

Candidate: \_\_\_\_\_

Date: \_\_\_\_\_

Time Allowed: TBD

Evaluator: \_\_\_\_\_

Total Time: \_\_\_\_\_

Dons PPE per department policies & procedures		
Adjusts driver's seat, steering wheel, & mirrors	1	
Drives the apparatus to the simulated fire ground location	1	
Assesses the simulated fire ground location for surface conditions & stability, grades, and ground & overhead obstructions	1	
Positions apparatus appropriately for the simulated fire ground scenario, assignment, and apparatus manufacturers recommendations	1	
Applies the parking brake / front axle brake and sets chocks	1	
Total	5	

**Critical Criteria**

\_\_\_\_\_ Failure to complete 5 steps in a safe manner

Circle one:            1<sup>st</sup> Attempt                      Retest

**Document all reasons for not awarding points or for checking any critical criteria below:**



## Aerial Apparatus Stabilization Skill Sheet DOA-3

State of New Hampshire  
Department of Safety  
Division of Fire Standards & Training and Emergency Medical Services  
Driver / Operator – Aerial Apparatus Practical Exam

Candidate: \_\_\_\_\_

Date: \_\_\_\_\_

Time Allowed: TBD

Evaluator: \_\_\_\_\_

Total Time: \_\_\_\_\_

Confirms that apparatus is secure (Parking brake / front axle brake applied, chocks set, surface will support the weight of the stabilized apparatus)	1	
Engages the PTO / Hydraulic System	1	
Checks the travel path of the stabilizers for obstructions and / or limited factors	1	
Deploys stabilizer plates	1	
Deploys stabilizers based on topography & conditions per manufacturer's recommendations	1	
Confirms that apparatus is level per manufacturer's recommendations	1	
Confirms that stabilizers are locked per manufacturers recommendation's (Interlocks, pins, etc.)	1	
Total	7	

**Critical Criteria**

- \_\_\_\_\_ Failure to complete 7 steps in a safe manner
- \_\_\_\_\_ Fails to wear appropriate PPE

Circle one:                    1<sup>st</sup> Attempt                    Retest

**Document all reasons for not awarding points or for checking any critical criteria below:**

## Aerial Device Operation Skill Sheet DOA-4

State of New Hampshire  
Department of Safety  
Division of Fire Standards & Training and Emergency Medical Services  
Driver / Operator – Aerial Apparatus Practical Exam

Candidate: \_\_\_\_\_

Date: \_\_\_\_\_

Time Allowed: TBD

Evaluator: \_\_\_\_\_

Total Time: \_\_\_\_\_

Confirms that apparatus is secure (Parking brake / front axle brake applied, chocks set, stabilized & leveled appropriately)	1	
Transfers hydraulic power from the stabilizers to the aerial device	1	
Confirms that all safety devices are in place & used correctly (Steps, safety chains, rails, etc.)	1	
Checks the intended path of travel of the aerial device for obstructions & hazards	1	
Raises, rotates, extends, & lowers the aerial device to the intended objective	1	
Raises aerial device away from the objective; retracts, rotates, & lowers the aerial device to the cradle <i>Note: Elevating Platforms will be lowered to the cradle from the Lower Control Station</i>	1	
Transfers hydraulic power from the aerial device to the stabilizers	1	
<b>Total</b>	<b>7</b>	

### Critical Criteria

- \_\_\_\_\_ Failure to complete 7 steps in a safe manner
- \_\_\_\_\_ Fails to maintain smooth operation of the aerial device throughout the evolution
- \_\_\_\_\_ Fails to monitor aerial apparatus stability and aerial device loads throughout the evolution
- \_\_\_\_\_ Fails to wear appropriate PPE

Circle one:                      1<sup>st</sup> Attempt                      Retest

**Document all reasons for not awarding points or for checking any critical criteria below:**

## Aerial Device Emergency Lowering Skill Sheet DOA-5

State of New Hampshire  
Department of Safety  
Division of Fire Standards & Training and Emergency Medical Services  
Driver / Operator – Aerial Apparatus Practical Exam

Candidate: \_\_\_\_\_

Date: \_\_\_\_\_

Time Allowed: TBD

Evaluator: \_\_\_\_\_

Total Time: \_\_\_\_\_

Verifies that the aerial device is clear of personnel, elevated master stream is stowed, and waterway is drained	1	
Confirms that all safety devices are in place & used correctly (Steps, safety chains, rails, etc.)	1	
Checks the intended path of travel of the aerial device for obstructions & hazards	1	
Engages emergency operating system	1	
Retracts, rotates, & lowers aerial device to the cradle	1	
Disengages emergency operating system	1	
<b>Total</b>	<b>6</b>	

**Critical Criteria**

- \_\_\_\_\_ Failure to complete 6 steps in a safe manner
- \_\_\_\_\_ Fails to monitor aerial apparatus stability
- \_\_\_\_\_ Fails to wear appropriate PPE

Circle one:                      1<sup>st</sup> Attempt                      Retest

**Document all reasons for not awarding points or for checking any critical criteria below:**

## Elevated Master Stream Operation Skill Sheet DOA-6

State of New Hampshire  
Department of Safety  
Division of Fire Standards & Training and Emergency Medical Services  
Driver / Operator – Aerial Apparatus Practical Exam

Candidate: \_\_\_\_\_

Date: \_\_\_\_\_

Time Allowed: TBD

Evaluator: \_\_\_\_\_

Total Time: \_\_\_\_\_

Confirms that apparatus is secure (Parking brake / front axle brake applied, chocks set, stabilized & leveled appropriately)	1	
Prepares the ladder pipe or waterway (Rescue vs. Waterway mode, correct nozzle, etc.)	1	
Establishes / Verifies an appropriate water supply has been established	1	
Confirms that all safety devices are in place & used correctly (Steps, safety chains, rails, etc.), checks the intended path of travel of the aerial device for obstructions & hazards, and positions the aerial device appropriately for master stream operations	1	
Charges the ladder pipe or waterway and operates the stream, demonstrating the following: <ul style="list-style-type: none"> <li>• Pattern Control Changes (if applicable)</li> <li>• Nozzle Sweep / Position</li> <li>• Nozzle reaction monitored / Minimal stress placed on the aerial device</li> <li>• Tip Load / Platform Load monitored and not exceeded</li> </ul>	1	
Shuts down the flow of water	1	
Drains ladder pipe / Opens waterway drain and drains waterway piping completely	1	
Lowers the aerial device, disassembles & stows the ladder pipe / returns the waterway to its normal position	1	
<b>Total</b>	<b>8</b>	

### Critical Criteria

- \_\_\_\_\_ Failure to complete 8 steps in a safe manner
- \_\_\_\_\_ Fails to maintain smooth operation of the aerial device throughout the evolution
- \_\_\_\_\_ Fails to monitor aerial apparatus stability and aerial device loads throughout the evolution
- \_\_\_\_\_ Fails to wear appropriate PPE

Circle one:                      1<sup>st</sup> Attempt                      Retest

**Document all reasons for not awarding points or for checking any critical criteria below:**