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Introduction to Driver/Operator - Aerial Certification

Each individual seeking certification within the Kansas Fire & Rescue Training Institute, the University of Kansas, Certification System must submit an application and the appropriate fee to secure entrance into the system. **Candidates are given one year in which to complete the certification process.** Application forms may be downloaded at: [http://www.continuinged.ku.edu/fire/certification.php](http://www.continuinged.ku.edu/fire/certification.php).

A list of current fees may be obtained by calling 785-864-4790 or toll free 1-866-804-8841 or may be downloaded from [http://www.continuinged.ku.edu/fire/certification.php](http://www.continuinged.ku.edu/fire/certification.php). Purchase orders from cities or organizations will be accepted. Kansas Fire & Rescue Training Institute will not “bill” individuals for the certification fee. Checks or credit cards are accepted from individuals. Upon receipt of the application and fee, the candidate will be scheduled into a specific exam site as requested or the candidate may select an exam site from the schedule on the KUCE website.

Applicants may register for an exam site at the time of application by completing the appropriate block on the application form. Candidates requesting a specific test site should contact the Kansas Fire & Rescue Training Institute at 785-864-4790 or toll free 1-866-804-8841 to confirm that they have a reserved place at the exam.

Certification candidates are given two (2) attempts at each component, written and practical, **within the twelve month certification period.** If the candidate takes either component of the exam twice without passing, the candidate is required to resubmit a certification application form as well as an additional certification fee before being scheduled to retest a third time.

Candidates failing the written exam are responsible for notifying Kansas Fire & Rescue Training Institute of their desire to retest and enroll at the next scheduled exam that has available space or they may come to the Kansas Fire & Rescue Training Institute in Lawrence, Kansas to take a retest. Written exams will **not** be graded at the test site. Candidates may not take the written exam more than once per day.

Candidates are responsible for all of the skills required by the NFPA 1002, **Standard for Fire Apparatus Driver/Operator Professional Qualifications**, 2009 edition, during the practical exam. An exact list of specific skills is included in the study guide. **Candidates should be prepared to test on any skill listed in the standard.** The intent of this process is to insure that candidates are prepared to test on skills required by the NFPA 1002 – 2009 standard.

**Candidates will test one maintenance skill set, one driving skill set, and two aerial skill sets.**

Practical skill exams are graded on a pass/fail basis. Candidates must successfully complete all skill stations at an exam site to receive a passing grade for the practical exam. Each candidate is allowed two (2) attempts at each station.

Candidates failing the practical exam are responsible for notifying Kansas Fire & Rescue Training Institute of their desire to retest by preregistering for another regularly scheduled exam. Candidates may not take the practical exam more than once per exam day.

**An official picture ID (e.g., driver’s license, military ID, etc.) must be shown for admittance to written and practical exams.**
Certification Examination Instructions
Driver/Operator - Aerial
NFPA 1002 – 2009

Prerequisites:
Candidates seeking certification for Driver/Operator - Aerial within the Kansas Fire & Rescue Training Institute (KFRTI), the University of Kansas, must meet the following:


2. Verification of the following requirements by the Fire Chief (or designated representative) or employer. Verification of these requirements will be executed with the completion of the Driver/Operator – Aerial Local Verification Form found at the end of this Study Guide (page 21).
   a. Valid state driver’s license.
   b. Approval by Chief of Department to drive all vehicles the candidate is expected to drive.
   c. Demonstrated ability to document routine tests, inspections, and servicing functions per department protocols and procedures.
   d. Demonstrated ability to operate a fire department pumper under adverse environmental conditions.
   e. Demonstrated ability to operate a department pumper using defensive driving techniques under emergency conditions (i.e., “lights and sirens”).


3. Candidate must be previously nationally certified NFPA 1001 Fire Fighter I.

4. Successful completion of all parts of the Driver/Operator - Aerial certification exam will result in national certification in Driver/Operator - Aerial.

Part I - Written Examination:

1. Candidates are required to score a minimum of 70%.

2. The certification exam contains one hundred (100) true/false and multiple choice questions covering Driver/Operator - Aerial level knowledge requirements as stated in NFPA 1002-2009. The candidate will be allowed two (2) hours to complete this portion of the exam.
Part II - Practical Skills Examination:

The Driver/Operator - Aerial practical skills portion of the certification exam is based on Requisite Knowledge and Requisite Skills objectives listed in NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications, 2009 edition.

1. Candidates will be required to score 100% on all evaluated skills, which are graded on a Pass/Fail basis.

2. The skills evaluation forms are available as part of this study guide.

References & Textbooks:

Certification Flow Chart for Driver/Operator - Aerial

1. Decide to seek National Certification
2. Attend an appropriate class
3. Submit certification application and fee to KF&RTI
4. Request test site from KF&RTI
5. Take written & practical exams

- Yes: Pass all parts?
  - Yes: Receive certificate in 10 to 20 working days
  - No: Retest
- No: Notified by KF&RTI in 10 to 20 working days

Retest

- Yes: Pass all parts?
  - Yes: Receive certificate in 10 to 20 working days
  - No: Retest
# Driver/Operator - Aerial Written Exam Study Guidesheet


The reading and study references listed below represent published references from which certification exam questions are taken.

<table>
<thead>
<tr>
<th>Section Subject &amp; NFPA Objective Number</th>
<th>Reading/Study Reference</th>
</tr>
</thead>
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<td>Perform Routine Tests, Inspections, and Servicing Functions. 4.2.1</td>
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<td>Document Routine Tests, Inspections, and Servicing Functions. 4.2.2</td>
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<tr>
<td>Operate a Fire Department Vehicle. 4.3.1</td>
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<td>Maneuver a Fire Department Vehicle in Areas with Restricted Horizontal and Vertical Clearances. 4.3.5</td>
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<td>Operate a Fire Department Vehicle Using Defensive Driving Techniques Under Emergency Conditions. 4.3.6</td>
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<td>Operate All Fixed Systems and Equipment on the Fire Department Vehicle. 4.3.7</td>
<td>pp. 46 – 84</td>
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<td>Perform Routine Tests, Inspections, and Servicing Functions Particular to an Aerial Apparatus 6.1.1</td>
<td>pp. 73 – 74, 125 – 131</td>
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<tr>
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<tr>
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<tr>
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Deploy and Operate an Elevated Master Stream
6.2.5 pp. 69 – 72, 194 – 195, 316 – 321, 323 – 335
Driver/Operator - Aerial Practical Skills Exam Study Guidesheet


The reading and study references listed below represent published references from which certification exam skill sheets are derived.

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<tr>
<th>Section Subject &amp; NFPA Objective Number</th>
<th>Referenced Skill Sheets</th>
</tr>
</thead>
<tbody>
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<td><strong>Perform Routine Tests, Inspections, and Servicing Functions.</strong></td>
<td></td>
</tr>
<tr>
<td>4.2.1 Use hand tools.</td>
<td>KFRTI 1</td>
</tr>
<tr>
<td>Recognize system problems.</td>
<td>KFRTI 1</td>
</tr>
<tr>
<td>Correct deficiencies noted.</td>
<td>KFRTI 1</td>
</tr>
<tr>
<td><strong>Document Routine Tests, Inspections, and Servicing Functions.</strong></td>
<td></td>
</tr>
<tr>
<td>4.2.2 Use tools and equipment.</td>
<td>KFRTI 1</td>
</tr>
<tr>
<td>Complete all related departmental forms.</td>
<td>Local Verification</td>
</tr>
<tr>
<td><strong>Operate a Fire Department Vehicle.</strong></td>
<td></td>
</tr>
<tr>
<td>4.3.1 Operate passenger restraint devices.</td>
<td>KFRTI 2</td>
</tr>
<tr>
<td>Maintain safe following distances.</td>
<td>KFRTI 2</td>
</tr>
<tr>
<td>Maintain control of vehicle while accelerating, decelerating, and turning.</td>
<td>KFRTI 2</td>
</tr>
<tr>
<td>Operate under adverse environmental or driving surface conditions.</td>
<td>Local Verification</td>
</tr>
<tr>
<td>Use automotive gauges and controls.</td>
<td>KFRTI 2</td>
</tr>
<tr>
<td><strong>Back a Fire Department Vehicle Into a Restricted Area.</strong></td>
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</tr>
<tr>
<td>4.3.2 Use mirrors and judge vehicle clearance.</td>
<td>KFRTI 3</td>
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<tr>
<td>** Maneuver a Fire Department Vehicle Around Obstructions.**</td>
<td></td>
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<tr>
<td>4.3.3 Use mirrors and judge vehicle clearance.</td>
<td>KFRTI 3</td>
</tr>
<tr>
<td><strong>Turn a Fire Department Vehicle 180 Degrees Within a Confined Space.</strong></td>
<td></td>
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<tr>
<td>4.3.4 Use mirrors and judge vehicle clearance.</td>
<td>KFRTI 3</td>
</tr>
<tr>
<td><strong>Maneuver a Fire Department Vehicle in Areas with Restricted Horizontal and Vertical Clearances.</strong></td>
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<tr>
<td>4.3.5 Use mirrors and judge vehicle clearance.</td>
<td>KFRTI 3</td>
</tr>
<tr>
<td><strong>Operate a Fire Department Vehicle Using Defensive Driving Techniques Under Emergency Conditions.</strong></td>
<td></td>
</tr>
<tr>
<td>4.3.6 Operate passenger restraint devices.</td>
<td>Local Verification</td>
</tr>
<tr>
<td>Maintain safe following distances.</td>
<td>Local Verification</td>
</tr>
<tr>
<td>Maintain control of vehicle while accelerating, decelerating, and turning.</td>
<td>Local Verification</td>
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<tr>
<td>Operate under adverse environmental or surface conditions.</td>
<td>Local Verification</td>
</tr>
<tr>
<td>Use automotive gauges and controls.</td>
<td>Local Verification</td>
</tr>
<tr>
<td><strong>Operate All Fixed Systems and Equipment on the Fire Department Vehicle.</strong></td>
<td></td>
</tr>
<tr>
<td>4.3.7 Deploy, energize, &amp; monitor system or equipment.</td>
<td>KFRTI 2</td>
</tr>
<tr>
<td>Recognize &amp; correct system problems.</td>
<td>KFRTI 2</td>
</tr>
<tr>
<td><strong>Perform Routine Tests, Inspections, and Servicing Functions on Aerial-Specific Equipment.</strong></td>
<td></td>
</tr>
<tr>
<td>6.1.1 Cable systems (if applicable).</td>
<td>KFRTI 1</td>
</tr>
</tbody>
</table>
Aerial device hydraulic systems. KFRTI 1
Slides and rollers. KFRTI 1
Stabilizing systems. KFRTI 1
Aerial device safety systems. KFRTI 1
Breathing air systems. KFRTI 1
Communication systems. KFRTI 1
Ability to use tools. KFRTI 1
Recognize system problems. KFRTI 1
Correct any deficiencies noted according to policies & procedures. KFRTI 1

Maneuver and Position an Aerial Apparatus
6.2.1 Ability to determine a correct position for the apparatus. KFRTI 4
Maneuver the apparatus into that position. KFRTI 4
Avoid obstacles to operations. KFRTI 4

Stabilize an Aerial Apparatus
6.2.2 Transfer power from the vehicle’s engine to the hydraulic system. KFRTI 4
Operate vehicle stabilization devices. KFRTI 4

Maneuver and Position the Aerial Device from Each Control Station
6.2.3 Raise the aerial device. KFRTI 5
Rotate the aerial device. KFRTI 5
Extend the aerial device. KFRTI 5
Position to a specified location. KFRTI 5
Lock the aerial device. KFRTI 5
Unlock the aerial device. KFRTI 5
Retract the aerial device. KFRTI 5
Lower the aerial device. KFRTI 5
Bed the aerial device. KFRTI 5

Lower an Aerial Device Using the Emergency Operating System
6.2.4 Rotate and position to center. KFRTI 7
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Retract the aerial device. KFRTI 7
Lower the aerial device. KFRTI 7
Bed the aerial device using the emergency operating system. KFRTI 7

Deploy and Operate an Elevated Master Stream
6.2.5 Connect a water supply to a master stream device. KFRTI 6
Control an elevated nozzle manually or remotely. KFRTI 6
Skill Set: Maintenance

OBJECTIVE: NFPA 1002-2009, Chapter 4, Sections 4.2.1 and 4.2.2 and Chapter 6, Section 6.1.1.


Candidate Equipment Required: Station uniform, fire department aerial, inspection checklist, hand tools.

Evaluator Equipment Required: Inspection checklist, departmental maintenance SOPs.

Read To Candidate

At this station, you will be required to inspect a fire department aerial and all its on-board, integral sub-systems. You will use the provided checklist and whatever hand tools which may be required to perform those checks. You should correct any deficiencies noted that are allowed by your departmental maintenance SOPs. You must appropriately annotate the inspection checklist. This is not a timed event, but you should complete the assignment as expeditiously as possible.

To pass this station, you must successfully complete 100% of the steps.

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
<th>Skill Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
<td></td>
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<tr>
<td>P</td>
<td>F</td>
<td></td>
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</tbody>
</table>

Section 4.2.1 – Perform Routine Tests, Inspections, and Servicing Functions.

Section 4.2.2 – Document Routine Tests, Inspections, and Servicing Functions.

Section 5.1.1 – Perform Routine Tests, Inspections, and Servicing Functions on Aerial-Specific Equipment.

<p>| | | | |</p>
<table>
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</table>

Candidate’s Name: ________________________________ Station: P ____ F ____

Evaluator’s Signature: ____________________________ Date: ____________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
<table>
<thead>
<tr>
<th>OK</th>
<th>Needs</th>
<th>Item or System</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Service</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Automotive Systems**

- ___ ___ Battery or batteries
- ___ ___ Braking system
- ___ ___ Coolant system
- ___ ___ Electrical system
- ___ ___ Fuel
- ___ ___ Hydraulic fluids (cab raising pump, etc.)
- ___ ___ Transmission fluid
- ___ ___ Lubrication
- ___ ___ Oil
- ___ ___ Tires
- ___ ___ Steering system
- ___ ___ Belts
- ___ ___ Lights (headlights, parking lights, brake lights, back-up lights, turn signals)
- ___ ___ Emergency lights & siren

**Aerial-Specific Systems**

- ___ ___ Exercised all valves
- ___ ___ Pump primer oil (if equipped with a pump)
- ___ ___ Hydraulic fluids (aerial device, ladder rack, etc.)
- ___ ___ Generator fluids
- ___ ___ Extrication power unit fluids
- ___ ___ Gas-powered saws fluids
- ___ ___ Gas-powered ventilation fan fluids
- ___ ___ All on-board equipment properly secured
- ___ ___ Aerial device
- ___ ___ Vehicle stabilization system

Truck Number ______  Verified By ______________________________ Date _______ Time ______
NFPA 1002-2009, Driver/Operator - Aerial

Skill Set: Driving – Road Course

OBJECTIVE: NFPA 1002-2009, Chapter 4, Section 4.3.1 & 4.3.7.


Candidate Equipment Required: Station uniform, valid driver’s license, fire department aerial.

Evaluator Equipment Required: Specified road course.

Read To Candidate

At this station, you will be required to safely operate a fire department aerial over a predetermined route on public roads. I will ride with you and give you verbal directions. Be sure to observe and obey all applicable traffic laws and department regulations while operating the vehicle. There will NOT be any emergency driving during the course of this skill station.

Upon completion of the road driving portion of this skill set, you will operate all fixed systems on this apparatus. This is not a timed event, but you should complete the assignment as expeditiously as possible, without breaking any speed limits.

To pass this station, you must successfully complete 100% of the steps.

1st Attempt 2nd Attempt Skill Steps
P F P F

Section 4.3.1 – Operate a Fire Department Vehicle

1. Possessed valid driver’s license in accordance with department SOP.
2. Operated passenger restraint devices.
3. Ensured all occupants were seated and restrained.
4. Maintained safe following distances.
5. Maintained control of vehicle while accelerating, decelerating, and turning.
6. Used automotive gauges and controls.
7. Used turn signals.
8. Operated within all traffic laws and department SOPs.
9. Performed all required maneuvers on predetermined route.
   a. Four left turns.
   b. Four right turns.
   c. Straight section of business street or two-lane rural road at least 1 mile long.
   d. One through intersection.
   e. Two intersections where a stop has to be made.
   f. One railroad crossing (may be simulated/designated if no track in district)
   g. One curve, either left or right.

(Continued)
Section 4.3.7 – Operate All Fixed Systems & Equipment on a Fire Department Vehicle

10. Deployed, energized, & monitored system or equipment. *(Test all that apply.)*

- a. Generator and/or inverter.
- b. Scene lighting equipment (fixed and portable).
- c. Air compressor.
- d. Breathing air system.
- e. Hydraulic rescue tools & power unit.
- f. Power reels for air, hydraulic, or electrical lines.
- g. Ground ladders.
- h. Powered ventilation equipment.

11. Recognize & correct system problems.
Sample of Predetermined Route for the Driver/Operator – Aerial Road Course
(Used with permission from Ottawa Fire Department)

Instructions to Driver/Operator:
When determining the route for the Driver/Operator Road Course, it is advisable that you indicate the task from the skill sheet provided by KFRTI with the directions in the course. Keying the task with directions will give you the opportunity to cross check the directions with the skill sheet, thereby ensuring each task has been covered. It will also assist the evaluator as he checks off the items on the skill sheet during the exam. Candidates should practice driving the exact route prior to the exam date. Allow approximately 30 minutes per candidate for the street course.

Sample predetermined route for the driver/operator road course:
Off the bay floor across the street to 68 Hwy.

Turn right on 68 Hwy (9.b) go over bridge. On the down-hill side of the bridge, down shift and brake. (9.j)

Take off ramp to Tecumseh. (9.b)

Turn right on Tecumseh, (9.b) go under the bridge and north on locust. (9.g & 9.l)

Take Locust north to Wilson. Turn right on Wilson. (9.b)

Proceed to railroad crossing, stop at crossing per department protocol. (9.f)

Continue on to Main Street, cross Main on Wilson to Hickory. Turn right on Hickory. (9.b & 9.e) South to Blackhawk, (9.d) turn right from Blackhawk onto Main Street. (9.b)

Turn left on Main Street going south. (9.a)

South on Main to 68 Hwy. (9.c) Once on 68 Hwy, execute two lane changes. (9.i)

Turn left on Fifth, (9.a) turn left on Hickory, (9.a & 9.e) turn left on Fourth (9.a & 9.e) turn left on Main (9.a) and proceed south.

Take Princeton Circle Drive to I-35.

Go south on I-35. (9.h) Exit I-35 at Old Fifty Hwy (9.h) and turn right. (9.b)

Take Old Fifty Hwy back into town on Main. On incline to Old Fifty Hwy overpass, shift gears to maintain speed. (9.k)

Return to station.
Skill Set: Driving – Cone Course

**OBJECTIVE:** NFPA 1002-2009, Chapter 4, Sections 4.3.2, 4.3.3, 4.3.4, and 4.3.5.


**Candidate Equipment Required:** Station uniform, valid driver’s license, fire department aerial.

**Evaluator Equipment Required:** Cones, spotter, event specifications, closed-course driving area.

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**Read To Candidate**

At this station, you will be required to operate a fire department aerial through various situations that simulate actual driving situations. I will give you specific instructions at the beginning of each event. You will have a spotter available to you. No one else will be in the truck cab with you during this station. If you strike any of the cones, that constitutes a failure at that event. This is not a timed event, but you should complete the assignment as expeditiously as possible.

To pass this station, you must successfully complete 100% of the steps.

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<table>
<thead>
<tr>
<th>Skill Steps</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Possessed valid driver’s license in accordance with department SOP.</td>
<td>P</td>
<td>F</td>
</tr>
<tr>
<td>2. Operated passenger restraint devices.</td>
<td>P</td>
<td>F</td>
</tr>
<tr>
<td>3. Used mirrors &amp; judged vehicle clearance:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Backed into a restricted area.</td>
<td>P</td>
<td>F</td>
</tr>
<tr>
<td>b. Maneuvered around obstructions.</td>
<td>P</td>
<td>F</td>
</tr>
<tr>
<td>c. Turned 180 degrees within a confined space.</td>
<td>P</td>
<td>F</td>
</tr>
<tr>
<td>d. Maneuvered in areas with restricted horizontal &amp; vertical conditions.</td>
<td>P</td>
<td>F</td>
</tr>
</tbody>
</table>

*(NOTE: See following pages for individual event requirements.)*

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**Candidate’s Name:** __________________________________________  **Station:** P ____ F ____

**Evaluator’s Signature:** __________________________________________  **Date:** ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Item 3, Event 3a – Back into a restricted space:

This exercise measures a driver’s ability to drive past a simulated dock or stall, back the apparatus into the space provided, and stop smoothly. A dock or stall can be simulated by arranging barricades 40 ft. from a boundary line. These barricades should be 12 ft. apart, and the length should be approximately 20 ft. The driver should pass the barricades with the dock on the left and then back the apparatus, using a left turn, into the stall. The exercise should then be repeated with the dock on the right side, using a right turn.

![Diagram](Step 1)

**Step 1**

![Diagram](Step 2)

**Step 2**

Skill Item 3, Event 3b – Maneuver around obstacles:

This exercise measures a driver’s ability to steer the apparatus in close limits without stopping. The exercise should be conducted with the apparatus moving first backward, then forward. The course or path of travel for this exercise can be established by placing a minimum of three markers, each spaced 38 ft. apart, in a line. Adequate space must be provided on each side of the markers for the apparatus to move freely.

The driver should drive the apparatus along the left side of the markers in a straight line and stop just beyond the last marker. The driver then should begin the exercise by backing the apparatus between the markers by passing to the left of marker No. 1, to the right of marker No. 2, and to the left of marker No. 3.

At this point, the driver should stop the vehicle and then drive it forward between the markers by passing to the right of marker No. 3, to the left of marker No. 2, and to the right of marker No. 1.

![Diagram](Step 1)

**Step 1**

![Diagram](Step 2)

**Step 2**
Skill Item 3, Event 3c – Turned 180 degrees within a confined space:

This exercise measures the driver’s ability to turn the vehicle around in a confined space without striking obstacles. The turn is accomplished within an area 50 ft. x 100 ft. The driver moves into the area from a 12 ft. opening in the center of one of the 50 ft. legs, turns the vehicle 180 degrees, and returns through the opening. There is no limitation on the number of times the driver has to maneuver the vehicle to accomplish this exercise, but no portion of the vehicle should extend over the boundary lines of the space.

Skill Item 3, Event 3d – Maneuvered in areas with restricted horizontal & vertical conditions:

This exercise measures a driver’s ability to steer the apparatus in a straight line, to judge distances from wheel to object, and to stop at a finish line. The speed at which a driver should operate the apparatus is optional, but it should be great enough to necessitate quick judgment. This exercise is to be performed both forward and in reverse with a spotter.

The course for this exercise is created by arranging two rows of markers to form a lane 22.9 m (75 ft) long. The lane varies in width from 9 ft. 6 in. to a diminishing clearance of 8 ft. 2 in. The driver should maneuver the apparatus through this lane without touching the markers. The vehicle should be stopped at a finish line 50 ft. beyond the last marker. No portion of the vehicle should protrude beyond this line.

Vertical clearance judgment should be evaluated using a prop with a crossbar that is adjustable, based on the vehicle height. During the evaluation, the driver should drive forward and back through the prop with the crossbar at several differing heights, including one that is lower than the top of the vehicle. The prop should not be struck.
NFPA 1002-2009, Driver/Operator - Aerial  KFRTI Skills Evaluation Item 4

Skill Set: Maneuver and Position an Aerial Apparatus and Stabilize the Aerial Apparatus

OBJECTIVE:  NFPA 1002-2009, Chapter 6, Sections 6.2.1 & 6.2.2.


Candidate Equipment Required: Station uniform, fire department aerial.

Evaluator Equipment Required: A building and a street.

Read To Candidate

At this station, you will be required to maneuver and position a fire department aerial. I will give you a situation involving a building on fire at which you will eventually position the aerial device to perform (a rescue) (vertical ventilation) as directed by the Incident Commander.

You must consider any overhead obstructions such as power lines; street obstructions such as parked cars or pumper; and the reach of your aerial device when positioning the apparatus. This portion skill station begins when you put the apparatus in drive and ends when you set the parking brake.

You will then be directed by me to stabilize and level the apparatus in preparation to raise the aerial device. The skill station is complete when you tell me that you are ready to raise the aerial device.

This is not a timed event, but you should complete the assignment as expeditiously as possible.

To pass this station, you must successfully complete 100% of the steps.

1st Attempt 2nd Attempt  Skill Steps
P  F  P  F

Section 6.2.1 – Maneuver and Position an Aerial Device

_____ _____ _____ 1. Ability to determine a correct position for the apparatus.

_____ _____ _____ 2. Maneuver the apparatus into that position.

_____ _____ _____ 3. Avoid obstacles to operations.

Section 6.2.2 – Stabilize an Aerial Apparatus

_____ _____ _____ 4. Transfer power from the vehicle’s engine to the hydraulic system.

_____ _____ _____ 5. Operate the vehicle stabilization devices.

_____ _____ _____ 6. Level the apparatus.

Candidate’s Name: __________________________________________  Station: P ____ F ____

Evaluator’s Signature: __________________________________________  Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
NFPA 1002-2009, Driver/Operator - Aerial  

KFRTI Skills Evaluation Item 5

Skill Set: Maneuver and Position the Aerial Device from Each Control Station

OBJECTIVE: NFPA 1002-2009, Chapter 6, Sections 6.2.3.


Candidate Equipment Required: Station uniform, fire department aerial.

Evaluator Equipment Required: A building and a street.

Read To Candidate

At this station, you will be required to raise and position the aerial device to a location directed by me from each control station on the apparatus. The apparatus is parked and the stabilization system is set.

You will begin by raising the aerial device from its bed position and positioning it at the location I direct. Once you have it in position, lock it for further operations from that location. I will then direct you to cease operations and lower and bed the aerial device in preparation to return to station. You must retract the stabilization system and transfer power from the hydraulic system back to the engine.

The station ends when you tell me that you are ready to return to the station.

This is not a timed event, but you should complete the assignment as expeditiously as possible.

To pass this station, you must successfully complete 100% of the steps.

1st Attempt 2nd Attempt  Skill Steps

<table>
<thead>
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<th>P</th>
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</table>
1. Raise the aerial device.
2. Rotate the aerial device.
3. Extend the aerial device.
4. Position to a specified location.
5. Lock the aerial device.
6. Unlock the aerial device.
7. Retract the aerial device.
8. Lower the aerial device.
9. Bed the aerial device.
10. Retract the vehicle stabilization system.
11. Transfer power from the hydraulic system back to the engine.

Candidate’s Name:  __________________________________________ Station: P ____ F ____

Evaluator’s Signature:  __________________________________________ Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Deploy and Operate an Elevated Master Stream

OBJECTIVE:  NFPA 1002-2009, Chapter 6, Sections 6.2.5.


Candidate Equipment Required: Station uniform, fire department aerial, supply pumper (if required), water source, elevated master stream device.

Evaluator Equipment Required: Personnel to operate hydrant or supply pumper (if required.)

Read To Candidate

At this station, you will be required to deploy and operate an elevated master stream. You will be provided with assistance from personnel to operate a hydrant or a supply pumper, as required. You will be required to make any hose connections to your aerial in order to establish a water supply. You will also be required to make whatever connections necessary to the elevated master stream device and accomplish all necessary actions to put that device into service to establish an elevated master stream. You will then control the elevated nozzle either manually or remotely.

This is not a timed event, but you should complete the assignment as expeditiously as possible.

To pass this station, you must successfully complete 100% of the steps.

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
<th>Skill Steps</th>
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</table>
1. Established a water supply to the apparatus.
| ___ | ___ | ___ | ___ |
2. Connected a water supply to an elevated master stream device.
| ___ | ___ | ___ | ___ |
3. Control an elevated nozzle manually or remotely.

Candidate’s Name: __________________________________________ Station: P ___ F ___
Evaluator’s Signature: __________________________________________ Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Lower an Aerial Device Using the Emergency Operating System

OBJECTIVE:  NFPA 1002-2009, Chapter 6, Sections 6.2.4.


Candidate Equipment Required: Station uniform, fire department aerial.

Evaluator Equipment Required: A building and a street.

Read To Candidate

At this station, you will begin with the aerial device in the raised position. You will then be required to lower and bed the aerial device using the emergency operating system. You must then prepare the apparatus to return to the station by retracting the stabilization system and transferring power from the hydraulic system to the vehicle's engine. This station ends when you tell me you are ready to drive away.

This is not a timed event, but you should complete the assignment as expeditiously as possible.

To pass this station, you must successfully complete 100% of the steps.

1st Attempt 2nd Attempt  Skill Steps
P F P F

1. Rotate and position to center.
2. Unlock the aerial device.
3. Retract the aerial device.
4. Lower the aerial device.
5. Bed the aerial device using the emergency operating system.
6. Retract the vehicle stabilization system.
7. Transfer power from the hydraulic system back to the engine.

Candidate’s Name:  __________________________________________ Station:  P ____ F ____
Evaluator’s Signature:  __________________________________________ Date:  ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Driver/Operator - Aerial Local Verification Form

NFPA 1002 – 2009

Candidate’s Name: ___________________________ Date of Birth: __________

Local Verification Requirements

1. Driver’s license.
   The candidate has the appropriate class of driver’s license (and appropriate endorsements, if applicable) per department requirements and is authorized by the undersigned to operate the vehicle(s) used during the test.

2. NFPA 1002 – 2009, JPR 4.2.2, Document Routine Tests, Inspections, and Servicing Functions:
   The candidate has successfully demonstrated the ability to complete all required documentation relating to routine tests, inspections, and servicing functions of department aerials per department protocols and procedures.

3. NFPA 1002 – 2009, JPR 4.3.1, Operate a Fire Department Vehicle Under Adverse Environmental Conditions:
   The candidate has successfully demonstrated the ability to successfully drive a department aerial under adverse environmental or driving surface conditions.

4. NFPA 1002 – 2009, JPR 4.3.6, Operate Fire Department Vehicle Using Defensive Driving Techniques Under Emergency Conditions:
   The candidate has successfully demonstrated the ability to safely and successfully drive a department aerial including, but not limited to, the ability to operate passenger restraint devices; maintain safe following distances; maintain control of vehicle while accelerating, decelerating, and turning; operate the vehicle under adverse environmental or surface conditions; and use automotive gauges and controls, all while operating under emergency conditions (i.e., "lights and sirens").

I have reviewed the candidate’s file and affirm that the candidate identified above has met the requirements listed in paragraphs 1 through 3 above. All requirements have been successfully conducted and completed per local department protocol. All information listed above can be validated by a written and/or hard copy of the documents maintained by the department.

______________________________             ______________________________
Typed or Legibly Printed Name of Fire Chief or Designated Representative  Signature of Fire Chief or Designated Representative

Date: ___________________________  Department: ___________________________

Fire Department Phone Number: (_______) _______ - ________________

Mail Completed Form To: Kansas Fire & Rescue Training Institute, KU Continuing Education, 1515 St Andrews Drive, Lawrence, KS 66047

10/09 KF&RTI