



Fire Service Training The University of Kansas

National Certification Program

Driver/Operator-ARFF NFPA 1002-1998

Study Guide

April 2002

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Introduction to Driver/Operator-ARFF Certification

Each individual seeking certification within the University of Kansas Fire Service Training 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. An application form is included in this document and may be used and/or duplicated at the local level. Applications forms may also be downloaded at: <http://www.kuce.org/fst/>

A list of current fees may be obtained by calling 785-864-4790. Purchase orders from cities/organizations will be accepted. The University of Kansas Fire Service Training 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 University of Kansas Fire Service Training (785 - 864 - 4790) to confirm that they have a reserved place at the exam.

Certification candidates are given two (2) attempts at each component, written and practical. If the candidate takes either component of the exam two (2) times 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 Fire Service Training of their desire to retest and enroll at the next scheduled exam that has available space. Candidates may not take the written exam more than once per day.

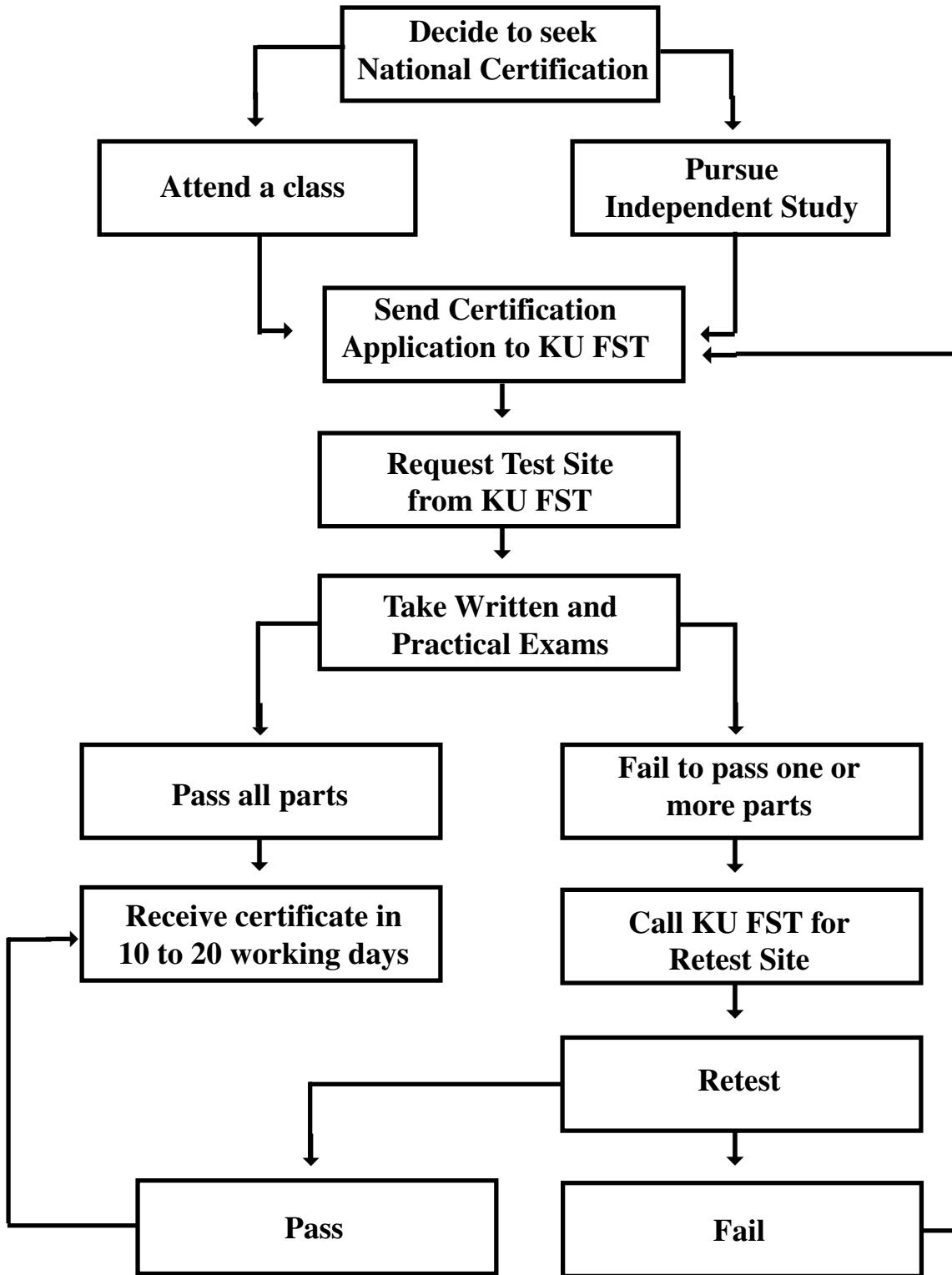
Candidates are responsible for **all of the skills** required by the applicable standard during the practical exam. An exact list of specific skills is included in this study guide. A minimum of three (3) skills per standard will be selected to be tested at each exam site. Candidates should be prepared to test on any skill outlined in the standard. The intent of this process is to insure that candidates are prepared to test on all skills required by a standard.

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 Fire Service Training 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 must be shown for admittance to a written or practical exam.

Certification Flow Chart for Driver/Operator-ARFF



**Kansas Fire & Rescue Training Institute
The University of Kansas
National Certification Application Form**

Return Application to: **Kansas Fire & Rescue Training Institute
University of Kansas Continuing Education
1515 St. Andrews Dr.
Lawrence, KS 66047-1625
FAX: 785-864-5074**

Personal Information

First Name _____ MI _____ Last Name _____ Date of Birth _____
 Home Address _____ Home City _____ State _____ Home Zip _____
 Home Phone _____ Daytime Phone _____ E-mail Address _____ FAX _____
 Fire Department/Organization _____ Fire Department Address _____

Please circle the category/level of certification for which you are applying. Please contact Kansas Fire & Rescue Training Institute for specific certification fee information (1-866-804-8841).

Levels:

- Fire Fighter I* (includes Haz Mat Awareness)
- Fire Fighter II* (includes Haz Mat Operations)
- Driver/Operator-Aerial
- Driver/Operator-ARFF
- Driver/Operator-Pumper
- Hazmat Awareness
- Hazmat Operations*
- Hazmat Technician*
- Inspector I
- Instructor I
- Instructor II
- Officer I
- Officer II
- Airport Fire Fighter*

***Level requires verification of SCBA Fit Testing. See statement below.**

Payment Method

Each application must be accompanied by payment of appropriate certification fees. Approved methods of payment are listed below. Please indicate method of payment you will use. (Please do not send cash through the mail.)

Payment enclosed (check or money order) Bill my department/organization
 MasterCard VISA Discover American Express
 Account number: _____ Expiration Date: _____

Name as it appears on card: _____

Testing Site Registration (optional)

If you know the location and date of the test site that you wish to attend, please list that information below. A certification exam schedule can be obtained by contacting the Kansas Fire & Rescue Training Institute at **785-864-4790** (phone), **1-866-804-8841** (toll free) or e-mail to kufst@ku.edu or visit our web site ([address: http://www.kuce.org/fst/](http://www.kuce.org/fst/)).

I wish to register for the following test site: Location: _____ Test Date: _____

I verify that I have reviewed the certification guidelines as stated in the Kansas Fire & Rescue Training Institute Certification Criteria and Procedures document and agree to conform to those guidelines. I further verify that all information submitted on this form is accurate.

Applicant's Signature

I verify the person listed on this form has been fit tested as per OSHA 29 CFR Part 1910.134. This form must be signed by the person conducting the fit testing or the Fire Chief.

Signature of Verifying Authority

Special Accommodation: If you will need special accommodation, please check the box preceding this statement and you will be contacted by a staff member.

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University of Kansas Fire Service Training Certification System

Driver/Operator-ARFF

NFPA 1002 - 1998, Chapter 7

Prerequisites:

Any candidate seeking certification, for **Driver/Operator-ARFF** Certification, within the Kansas University Fire Service Training Certification System must meet the following requirements:

1. Residency and Membership
 - Must be at least 18 years of age
 - Be a current member of a Kansas fire, emergency responder or allied professional organization.
 - Must be a resident of the state of Kansas or live in a border area and serve on a Kansas Fire Department. Residency is not required if the candidate is a member of the armed services of the United States. Individuals not meeting these requirements who seek Kansas certification should submit their requests for individual exceptions to the Fire Service Training Certification Manager.
2. Verification of the following:
 - Valid Kansas driver's license
 - Licensed to drive all vehicles candidate is expected to operate
 - Fire Fighter II Certification by a NPQB or IFSAC accredited agency
3. Candidate must be competent in all objectives listed in NFPA Standard 1002 for Driver/Operator-ARFF, Chapter 7.

Written Examination:

The Driver/Operator-ARFF written certification exam is based on knowledge objectives listed in *NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications* - Chapter 7. Candidates are required to score a minimum of 70%.

Practical Examination:

The Driver/Operator-ARFF certification practical exam is based on the *NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications* - Chapter 7. Candidates are required to score a minimum of 70%.

Practical Exam Requirement:

The practical exam will require that candidates test using an aircraft rescue and fire fighting apparatus, per NFPA 414 and 403, from their own department with which they are familiar. All elements of the practical exam will be performed with an Aircraft Rescue and Fire Fighting Apparatus. The written and practical test will be conducted at the local fire department for a minimum of two candidates.

References/Textbooks:

IFSTA, *Aircraft Rescue and Firefighting* 4th Edition, 1st Printing

IFSTA, *Pumping Apparatus, Driver/Operator Handbook* 1st Edition, 1st Printing

Written Exam Study Guide Sheets Driver/Operator-ARFF

Standard: NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 1998 Edition, Chapter 7.

References: The Reading/Study References listed below represent references from which certification exam questions are taken.

IFSTA, *Aircraft Rescue and Firefighting* 4th Edition, 1st Printing

IFSTA, *Pumping Apparatus, Driver/Operator Handbook* 1st Edition, 1st Printing

NFPA Standard Requirement Number	Pages In ARFF IFSTA, <i>Aircraft Rescue and Firefighting</i> 4th Edition, 1st Printing
7-1.2	pp. 39-42, 101-103, 127-141
7-1.3 and 7-1.4	pp. 15-26, 67-70, 127-135 pp. 51-53, 105-108, 185
7-2.1	pp. 42, 130-134, 144, 167-168, 203-204
7-2.2	pp. 17-23, 34-46, 64-69, 130-134, 170-186
7-2.3	pp. 80-87

NFPA Standard Requirement Number	Pages In IFSTA, <i>Pumping Apparatus, Driver/Operator Handbook</i> 1st Edition, 1st Printing
2-2.1	pp. 3-6, 245, 380-383
2-2.2	pp. 3-6, 380-383
2-3	Driving/Operating
2-3.1	pp. 3-6, 45-74
2-3.2	pp. 3-6, 58-60, 70-73
2-3.3	pp. 3-6, 58-60
2-3.4	pp. 3-6, 58-60
2-3.5	pp. 3-6, 58-60
2-3.6	pp. 3-6, 45-74
2-3.7	pp. 7-8, 56-59, 80-95, 387

Skills Exam Study Guide Sheets Driver/Operator-ARFF

Standard: NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 1998 Edition, Chapter 7.

References: The Reading/Study References listed below represent references from which certification practical skills are taken.

IFSTA, *Aircraft Rescue and Firefighting* 4th Edition, 1st Printing

IFSTA, *Pumping Apparatus Driver/Operator Handbook* 1st Edition, 1st Printing

KU FST Performance Test Item #	NFPA 1002 Objective	Pages In IFSTA, <i>Aircraft Rescue and Firefighting</i> 4th Edition, 1st Printing
4	7-1.4	pp. 127-135
5	7-2.1 7-2.3	pp. 132-137 pp. 187

KU FST Performance Test Item #	NFPA 1002 Objective	Pages In IFSTA, <i>Pumping Apparatus Driver/Operator Handbook</i> 1st Edition, 1st Printing
1	2-2.1, 2-2.2 2-3.7, 7-1.1	pp. 26-34, 35-39, 40-42
2	2-3.1, 7-1.2 7-1.1	pp. 70-74
3	2-3.2 through 2-3.6 and 7-1.2	pp. 70-74



NFPA 1002 - 1998 Driver/Operator-ARFF Performance Test Item 1

Candidate's Name: _____ Social Security#: _____ - _____ - _____

Percent correct required to pass: 70% (3 of 5) **Objective:** NFPA 1002-1998, Ch. 7-1.1, 2-2.1, 2-2.2, 2-3.7

Personal Protective Equipment Required: No special clothing required Full PPE + SCBA Full PPE w/o SCBA

Tools/Equipment/Setting: Helmet, gloves, boots Other: Local driving gear

Fire department ARFF vehicle, manufacturer's specifications, inspection list

Read to Candidate

In this station you will be given an inspection list and asked to inspect a fire department ARFF vehicle and verify its operational status. Be sure to document all inspections on list.

Successful completion of all steps within _____ minutes **or** within a reasonable fire ground time

1st Attempt	2nd Attempt	Skill Checklist
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P	F	P	F													
_____	_____	_____	_____	1. Performed all checks on list												
				<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">a. Battery</td> <td style="width: 50%;">g. Lubrication</td> </tr> <tr> <td>b. Braking system</td> <td>h. Oil</td> </tr> <tr> <td>c. Coolant system</td> <td>i. Tires</td> </tr> <tr> <td>d. Electrical system</td> <td>j. Steering system</td> </tr> <tr> <td>e. Fuel</td> <td>k. Belts</td> </tr> <tr> <td>f. Hydraulic fluids</td> <td>l. Tools, appliances, equipment</td> </tr> </table>	a. Battery	g. Lubrication	b. Braking system	h. Oil	c. Coolant system	i. Tires	d. Electrical system	j. Steering system	e. Fuel	k. Belts	f. Hydraulic fluids	l. Tools, appliances, equipment
a. Battery	g. Lubrication															
b. Braking system	h. Oil															
c. Coolant system	i. Tires															
d. Electrical system	j. Steering system															
e. Fuel	k. Belts															
f. Hydraulic fluids	l. Tools, appliances, equipment															
_____	_____	_____	_____	2. Inspected all fixed systems on vehicle												
				a. Agent dispensing system b. Secondary extinguishing system c. Vehicle mounted breathing air system												
_____	_____	_____	_____	3. Documented inspections/service functions												
_____	_____	_____	_____	4. Checked water tank level (if applicable)												
_____	_____	_____	_____	5. Verified operational status of ARFF Vehicle												

Evaluator's Signature: _____ **Date:** _____ **P** _____ **F** _____
 Evaluator's comments on reverse side if candidate fails

Fire Department ARFF Vehicle Checklist

NFPA 1002 Reference 2-2.1, 7-1.1 and 2-2.2

OK	Needs Service	
_____	_____	Battery
_____	_____	Braking System
_____	_____	Coolant System
_____	_____	Electrical System
_____	_____	Fuel
_____	_____	Hydraulic Fluids
_____	_____	Lubrication
_____	_____	Oil
_____	_____	Tires
_____	_____	Steering System
_____	_____	Belts
_____	_____	Tools, Appliances, Equipment
_____	_____	Agent dispensing system
_____	_____	Secondary extinguishing system
_____	_____	Vehicle mounted breathing air system
_____	_____	Water tank level (if applicable)

I verify that aerial unit# _____ is operational
and ready for duty.

Date: _____ Time: _____

Signed by: _____



NFPA 1002 - 1998 Driver/Operator-ARFF Performance Test Item 2

Candidate's Name: _____ Social Security#: _____ - _____ - _____

Percent correct required to pass: 70% (5 of 7)

Objective: NFPA 1002-1998, Ch. 7-1.2, 7-1.3, 2-3.1

Personal Protective Equipment Required: No special clothing required Full PPE + SCBA Full PPE w/o SCBA

Tools/Equipment/Setting: Helmet, gloves, boots Other: Local driving gear

Fire department ARFF vehicle, public way, map of required operations

Read to Candidate

In this station you will be asked to safely operate a fire department ARFF vehicle over a predetermined route on an airport including operation on a taxiway, runway and aircraft parking area that includes the listed items. The instructor will ride with you and give you a map or verbal directions. Be sure to obey all applicable laws and fire department regulations.

NOTE: The local fire department is responsible for developing and mapping this route to include all components listed below.

Candidates will be tested on the route as laid out by the local department.

Successful completion of all steps within _____ minutes **or** within a reasonable fire ground time

1st Attempt

2nd Attempt

Skill Checklist

P

F

P

F

- | | | | | |
|-------|-------|-------|-------|---|
| _____ | _____ | _____ | _____ | 1. Performed all operations on predetermined route |
| | | | | a. Four (4) left turns |
| | | | | b. Four (4) right turns |
| | | | | c. One (1) mile on business street |
| | | | | d. One (1) through intersection |
| | | | | e. Two (2) intersections requiring stop |
| | | | | f. One (1) railroad crossing |
| | | | | g. One (1) left or right curve |
| | | | | h. Limited access highway with ramp |
| | | | | i. Section of road with two (2) lane changes |
| | | | | j. Down grade requiring down shifting and braking |
| | | | | k. Up grade requiring gear changing |
| | | | | l. One (1) underpass or low clearance bridge |
| _____ | _____ | _____ | _____ | 2. Used automotive gauges to operate vehicle correctly |
| _____ | _____ | _____ | _____ | 3. Operated within all laws and traffic control devices |
| _____ | _____ | _____ | _____ | 4. Came to a stop at all unguarded railroad crossing |
| _____ | _____ | _____ | _____ | 5. Checked to make certain all occupants were seated and had seat belts secured prior to moving vehicle |
| _____ | _____ | _____ | _____ | 6. Driver has valid Driver's License (NFPA 1500 4-2) |
| _____ | _____ | _____ | _____ | 7. Followed local department SOP's |

Evaluator's Signature: _____ **Date:** _____ **P** **F**

Evaluator's comments on reverse side if candidate fails

Sample Route for the Driver Operator-ARFF Street Course

Used With Permission From Ottawa Fire Department

Instructions:

When determining the route for the driver operator street course it is advisable that you indicate the task, from the skill checklist provided by KU Fire Service Training, with the directions of the course. Keying the task with the directions will give you the opportunity to cross check the directions with the skills checklist ensuring that each task has been covered. It will also assist the evaluator as he/she checks off the items on the list 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 driving course:

Off the bay floor across the street to 68 Hwy.

Turn right on 68 Hwy. **(b)** go over the bridge. On the down hill side of the bridge do task **(j)** - down grade requiring down shifting and braking.

Take off ramp to Tecumseh **(b)**

Turn right on Tecumseh **(b)**, go under bridge and North on Locust **(l and g)**

Take Locust North to Wilson. Turn right on Wilson **(b)**

Proceed to railroad crossing, stop at crossing as per department protocol **(f)**

Continue on to Main street, cross Main on Wilson to Hickory. Turn right on Hickory **(b and e)**. South to Blackhawk **(d)**, turn right on Blackhawk **(b)** to Main Street.

Turn left on Main going South **(a)**

South on Main to 68 Hwy. **(i and c)** should be started in this distance

Continue on Main to Fifth

Turn left on Fifth **(a)**, turn left on Hickory **(a)**, turn left on Fourth **(a)**, turn left on Main and proceed South. This completes requirements of **(a and e)** (*This was executed by going around one city block*).

Between Seventh and Fifteenth complete tasks **(i and c)**

Take Princeton Circle Drive to I-35

Go South on I-35 **(h)**. Exit I-35 at Old Fifty Hwy. Turn right **(b)**

Take Fifty back into town on Main. On incline to old Fifty overpass, complete **(k)**

Return to station



NFPA 1002 - 1998 Driver/Operator-ARFF Performance Test Item 3

Candidate's Name: _____ Social Security#: _____ - _____ - _____

Percent correct required to pass: 70% (6 of 9)

Objective: NFPA 1002-1998, Ch. 7-1.2, 2-3.2 to 2-3.6

Personal Protective Equipment Required: No special clothing required Full PPE + SCBA Full PPE w/o SCBA

Tools/Equipment/Setting: Helmet, gloves, boots Other: Local driving gear

Fire department ARFF vehicle, flat off-road area, traffic cones and a spotter

Read to Candidate

In this station you will be operating a fire department ARFF vehicle through various courses with obstructions. You will have a spotter to help you. If you strike any of the obstructions you will fail the Station.

The evaluator will give you instructions for each course. You will back a fire department ARFF vehicle into a restricted space, around obstacles forward and reverse, turn 180 degrees in a confined space, move through restricted horizontal and vertical spaces.

Successful completion of all steps within _____ minutes **or** within a reasonable fire ground time

1st Attempt	2nd Attempt	Skill Checklist
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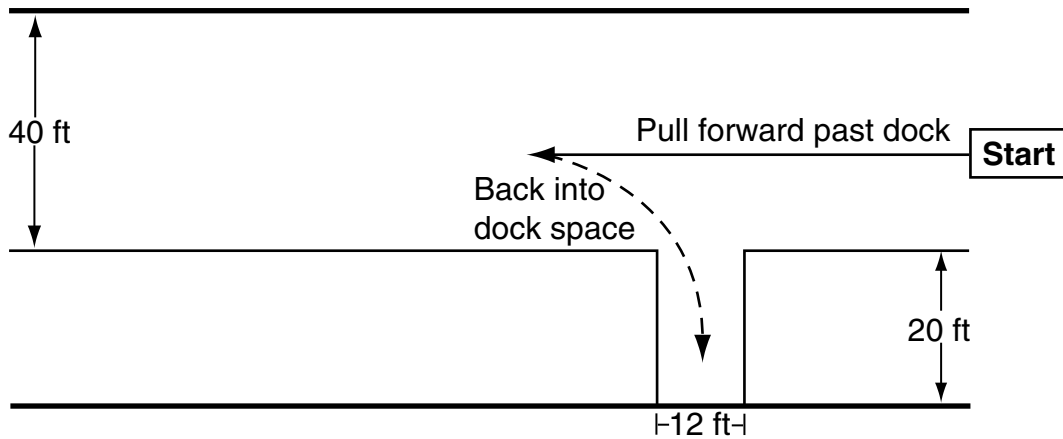
P	F	P	F	
_____	_____	_____	_____	1. Backed ARFF vehicle into restricted space left side
_____	_____	_____	_____	2. Backed ARFF vehicle into restricted space right side
_____	_____	_____	_____	3. Maneuvered ARFF vehicle around serpentine (obstruction) forward
_____	_____	_____	_____	4. Maneuvered ARFF vehicle around serpentine (obstruction) reverse
_____	_____	_____	_____	5. Performed 180 degree turn with ARFF vehicle in a confined space
_____	_____	_____	_____	6. Maneuvered ARFF vehicle through a restricted horizontal space
_____	_____	_____	_____	7. Maneuvered ARFF vehicle through a restricted vertical space
_____	_____	_____	_____	8. Demonstrated emergency defensive driving techniques, under simulated conditions, while maintaining control of the ARFF vehicle
_____	_____	_____	_____	9. Demonstrated non-emergency defensive driving techniques while maintaining control of the ARFF vehicle

Evaluator's Signature: _____ Date: _____ _____ P _____ F

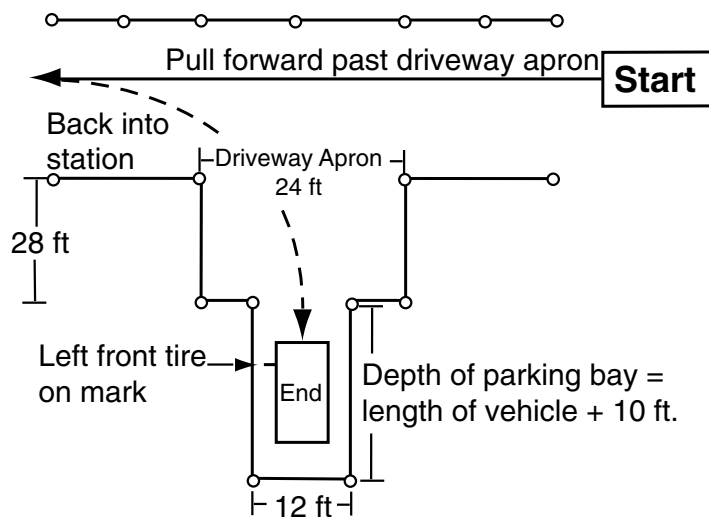
Evaluator's comments on reverse side if candidate fails

Explanatory Material NFPA 1002 Fire Apparatus Driver/Operator

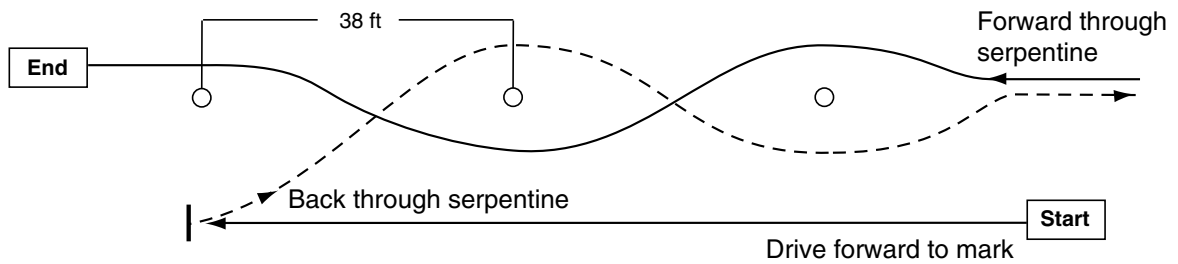
1. 2-3.1 The maneuvers and features specified for this job performance requirement include driving situations that the committee has determined to be essential. The committee recognizes that each of these situations may not exist in all areas. Where this occurs, those specific requirements may be omitted.
2. 2-3.2 The alley dock exercise measures a driver's ability to drive past a simulated dock back the apparatus into the space provided and stop smoothly. A dock or stall can be simulated by arranging barricades or cones as shown below:



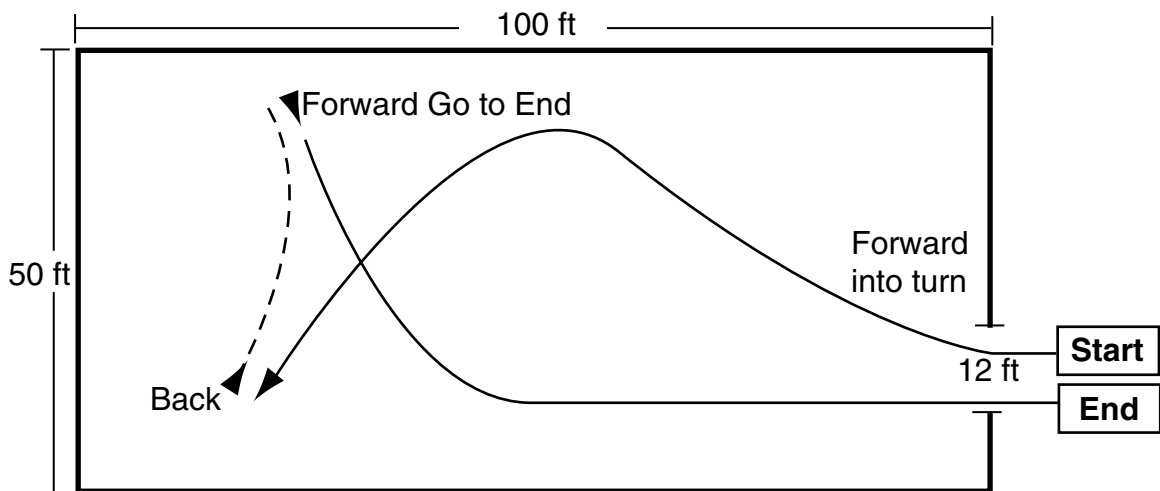
3. 2-3.2 The apparatus parking maneuver measures the driver's ability to back the apparatus into a fire station. A marker placed on the ground should indicate the proper position of the left front tire once the pumper is stopped and parked. An engine bay can be simulated by arranging barricades or cones as shown below:



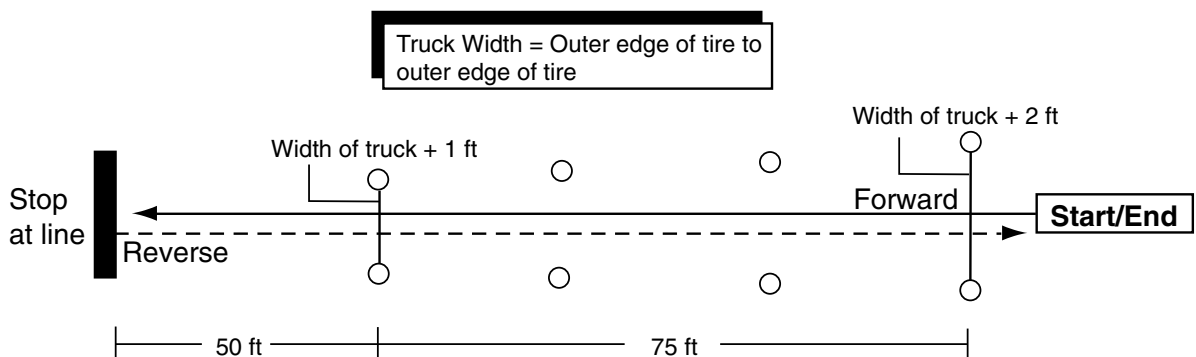
4. 2-3.3 The serpentine exercise measures a driver's ability to steer the apparatus in close limits without stopping. A serpentine may be formed using a minimum of three cones as shown below:



5. 2-3.4 The confined space turn around measures a driver's ability to turn the pumper around within a confined space without striking obstacles. A confined space turn around must be accomplished in an area where the vehicle cannot perform a u-turn without stopping and backing up.



6. 2-3.5 The diminishing clearance exercise measures a driver's ability to judge distances and to stop at a finish line. This exercise is performed both forward and reverse with a spotter.



7. 2-3.5 The vertical/horizontal clearance exercise measures a driver's ability to judge clearance for vertical obstacles. Vertical clearance should be evaluated using a prop with an adjustable cross bar. With the driver moving the pumper forward and reverse with the clearance of the cross bar adjusted at different heights including one cross bar setting that is lower than the top of the vehicle.



NFPA 1002 - 1998 Driver/Operator-ARFF Performance Test Item 4

Candidate's Name: _____ Social Security#: _____ - _____ - _____

Percent correct required to pass: 70% (7 of 10)

Objective: NFPA 1002-1998, Ch. 7-1.4

Personal Protective Equipment Required: No special clothing required

Full PPE + SCBA Full PPE w/o SCBA

Tools/Equipment/Setting: Helmet, gloves, boots

Other: Local driving gear

Fire department ARFF vehicle, rough off-road terrain

Read to Candidate

In this station you will be asked to safely operate a fire department ARFF vehicle over a predetermined route. You will operate the ARFF vehicle off an improved surface that incorporates the maneuvers the Driver/Operator-ARFF is expected to encounter. The ARFF vehicle must be safely operated in compliance with all department rules and regulations, NFPA 1500 Section 4-2, and the design limitations of the vehicle. The evaluator will give you instructions for each course.

Successful completion of all steps within _____ minutes or within a reasonable fire ground time

1st Attempt	2nd Attempt	Skill Checklist
-------------	-------------	-----------------

P	F	P	F	
_____	_____	_____	_____	1. Operated ARFF vehicle in loose or wet soil
_____	_____	_____	_____	2. Operated ARFF vehicle on steep grades
_____	_____	_____	_____	3. Operated ARFF vehicle when encountering limited sight distance
_____	_____	_____	_____	4. Operated ARFF vehicle through vehicle clearance obstacles (height, width, undercarriage)
_____	_____	_____	_____	5. Operated ARFF vehicle through limited space turn around
_____	_____	_____	_____	6. Operated ARFF vehicle through side slopes
_____	_____	_____	_____	7. Maintained control of vehicle at all times
_____	_____	_____	_____	8. Used reasonable speed for conditions
_____	_____	_____	_____	9. Operated safely under non-emergency conditions
_____	_____	_____	_____	10. Operated safely under adverse conditions (Weather, driving surface, time of day/night, etc.)

Evaluator's Signature: _____

Date: _____ **P** **F**
Evaluator's comments on reverse side if candidate fails



NFPA 1002 - 1998 Driver/Operator-ARFF Performance Test Item 5

Candidate's Name: _____ Social Security#: _____ - _____ - _____

Percent correct required to pass: 70% (8 of 12)

Personal Protective Equipment Required: No special clothing required

Objective: NFPA 1002-1998, Ch. 7-2.1 to 7-2.3
 Full PPE + SCBA Full PPE w/o SCBA

Tools/Equipment/Setting: Helmet, gloves, boots

Other: Local driving gear

Fire department ARFF vehicle and simulated crash incident scene

Read to Candidate

In this station you will maneuver and position an ARFF vehicle at an incident. The evaluator will ask you to position the ARFF vehicle for safe deployment for fire fighting and rescue operations for the incident presented. You will be asked to produce a fire stream while the vehicle is in both forward and reverse power modulation. You must also produce a fire stream from the internal tank, pressurized source and a static source.

Successful completion of all steps within _____ minutes or within a reasonable fire ground time

1st Attempt		2nd Attempt		Skill Checklist
P	F	P	F	
_____	_____	_____	_____	1. Approached scene with extreme caution watching for hazards
_____	_____	_____	_____	2. Adjusted approach for terrain and weather conditions
_____	_____	_____	_____	3. Positioned vehicle so it would not block other emergency vehicles
_____	_____	_____	_____	4. Positioned vehicle for quick operation in case of flash fire
_____	_____	_____	_____	5. Positioned vehicle to protect egress and rescue operations
_____	_____	_____	_____	6. Allowed space for repositioning of vehicle with limited maneuvers
_____	_____	_____	_____	7. Positioned vehicle for effective use of turrets and hand lines
_____	_____	_____	_____	8. Provided power to the pump and deployed turret from <ul style="list-style-type: none"> a. Internal tank b. Pressurized source c. Static source
_____	_____	_____	_____	9. Safely operated nozzle using proper flow rate for conditions
_____	_____	_____	_____	10. Produced a proper rate of fire stream while vehicle was moving forward and delivered agent to intended target
_____	_____	_____	_____	11. Produced a proper rate of fire stream while vehicle was moving in reverse and delivered agent to intended target
_____	_____	_____	_____	12. Met manufacturer's guidelines and recommendations for safe operations

Evaluator's Signature: _____ **Date:** _____ **P** **F**
 Evaluator's comments on reverse side if candidate fails