



DRIVER/OPERATOR – TILLER

NFPA Standard 1002, 2017 Edition, Chapter 7

Test Construction Guide

At a minimum, the practical examination will include skills selected from each category with a total of 8 Skill Sheets selected. The Test Control Officer will randomly select the prescribed number of Skill Sheets per category using the matrix below. The exam should be set up using at least three stations, with a different certified Evaluator at each station. It is expected that appropriate PPE shall be worn for all stations unless otherwise indicated within the Skill Sheet.

Note: **Apparatus Equipment:** If the Test Apparatus being used does not have any components listed on the skill sheet (i.e. cable systems, locking pins for stabilizers, etc.) or listed equipment (i.e. on board generator) draw a line thru the skill step and write the word “**equipment**”. This rule will be in effect as not all Aerial Apparatus are configured the same. This will not count as a failure for the candidate.

Driver/Operator Minimum Job Performance Requirements

Skill Sheet	JPR	Tasks	Minimum Selection Required: (for total of 8 Skill Sheets selected)
Random Skills			
1.	7.2.1, 4.2.1, 4.2.2	General Skill Requirement: Perform Preventative Maintenance Pre-Trip	Select 4 Random Skill Sheets from this category
2.	7.2.1, 4.3.1, 4.3.6	General Skill Requirement: 1. Drive a Fire Tiller Apparatus under normal conditions and 2. During a simulated Response	
3.	7.2.1, 4.3.2	General Skill Requirement: Driving Backing/Alley Dock Test	
4.	7.2.1, 4.3.3	General Skill Requirement: Driving Serpentine	
5.	7.2.1, 4.3.4	General Skill Requirement: Driving Confined Space	
6.	7.2.1, 4.35	General Skill Requirement: Driving Diminishing Clearance	
Mandatory Skills			
7.	7.2.1, 7.2.2	Position and Stabilize aerial apparatus: Maneuver and position an aerial apparatus; Stabilize an aerial apparatus	Select 4 Mandatory Skill Sheets from this category
8.	7.23	Maneuver and Position aerial device from each control station: Maneuver and position the aerial device from each control station	
9.	6.2.4	Lower an aerial device using the emergency operating system: Lower an aerial device using the emergency operating system	
10.	6.2.5	Deploy and Operate Elevated Master Stream: Deploy and operate an elevated master stream	



**FIRE PROTECTION BUREAU
FIRE SERVICE CERTIFICATION
PO Box 42642
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(360) 596-3945**



DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 1

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 edition		JPR: 7.2.1, 4.2.1, 4.2.2		SKILL AREA: General Skill Requirement: Perform Preventative Maintenance Pre-Trip			
TASK: The candidate shall perform, document, and complete daily routine tests, inspections, and servicing functions on specified systems and components so that the operational status of a fire department tiller is verified							
CONDITIONS: Given a fire department tiller and the provided tiller vehicle inspection checklist, the candidate shall demonstrate the ability to: (Note: candidate may use sample checklist or AHJ's checklist)							
PERFORMANCE OUTCOME: The ability to recognize system problems, correct any deficiency noted and use/inspect hand tools, with completed departmental forms, according to policies and procedures of Authority Having Jurisdiction.							
No.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Inspect and walk around apparatus, ensure safe operation during inspection while looking for signs of damage or leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Check the apparatus forms and documents for pertinent and current information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Inspect and use hand tools on the apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Ensure the communication system is operable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Perform and document the Aerial Device Apparatus Inspection Forms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Check that stepping surfaces and hand rails are clean, secure, and in good working order	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Check batteries for fluid level, (if applicable) for corrosion, and tie downs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Check braking system fluid level or air pressure, low pressure alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Check coolant system for fluid levels, leaks, cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Check electrical system, including warning devices, headlights, running lights, turn signals, and warning lights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.	Check fuel level, must be kept at level according to AHJ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.	Check hydraulic fluids for level and leaks (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.	Check engine oil for fluid level and leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.	Check wheels, tires for air pressure and wear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.	Check steering system for excessive play, in general should be no more than 10 degrees (about 2 inches) in either direction for tractor and tiller trailer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.	Check engine belts for tightness and wear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.	Check all tools, appliances, equipment, lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.	Check windshield, wiper blades, and washer fluid level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.	Start apparatus; monitor gauges and control devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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DRIVER/OPERATOR – TILLER

NFPA STANDARD: 1002, 2017 edition		JPR: 7.2.1, 4.2.1, 4.2.2		SKILL AREA: General Skill Requirement: Perform Preventative Maintenance Pre-Trip			
20.	Recognize system problems; document and correctly report any deficiencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	Check all exterior equipment for general condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	Correct any deficiency noted according to the AHJ's policies and procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>				Equipment Stop Safety: Yes <input type="checkbox"/>			

Evaluator/Candidate Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

Date

Retest Evaluator (Print & Sign)

Candidate Signature

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DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 2

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition	JPR: 7.2.1, 4.3.1, 4.3.6	SKILL AREA: General Skill Requirement: 1. Drive a Fire Tiller Apparatus under normal conditions and 2. During a simulated Response
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TASK: Drive a fire department tiller safely over a predetermined route on a public way.

CONDITIONS: Given a fire department tiller and a predetermined route. **Note: Depending on AHJ, candidate will drive the tiller and AHJ provides a certified driver for the tractor or the candidate will test driving both tractor and tiller positions.**

PERFORMANCE OUTCOME: The candidate shall be able to drive a fire department tiller on a predetermined course.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing and moving apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Driver/passenger(s), using passenger restraint devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Four left turns and four right turns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	A straight section of urban street or rural two-lane road at least a mile in length	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	One through-intersection and two intersections where a stop has to be made	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	One railroad crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	One curve, either left or right	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow lane changes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	A down-grade steep enough and long enough to require downshifting and braking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	An up-grade steep enough and long enough to require gear changing to maintain speed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	One underpass or low clearance bridge or obstacle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Maintain safe following distances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Maintain control of vehicle while accelerating, decelerating, and turning (given road, weather, and traffic conditions)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Display ability to operate under adverse environmental or driving surface conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Demonstrate proper use of automotive gauges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Utilize emergency lights and siren	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Use defensive driving techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Maintain safe following distances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Maintain control of vehicle while accelerating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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DRIVER/OPERATOR – TILLER

NFPA STANDARD: 1002, 2017 Edition		JPR: 7.2.1, 4.3.1, 4.3.6		SKILL AREA: General Skill Requirement: 1. Drive a Fire Tiller Apparatus under normal conditions and 2. During a simulated Response			
	c. Maintain control of vehicle while decelerating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Maintain control of vehicle while turning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e. Maintain reasonable speed for prevailing conditions (environmental; driving surfaces; road, weather, and traffic conditions)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	Bring apparatus to a safe stop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>				Equipment Stop Safety: Yes <input type="checkbox"/>			

Evaluator/Candidate Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

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Candidate Signature

Date



DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 3

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition	JPR: 7.2.1 & 4.3.2	SKILL AREA: General Skill Requirement: Driving Backing/Alley Dock Test			
TASK: Back a tiller aerial apparatus from a roadway into restricted space on both the right and left sides of the vehicles. (Alley Dock)					
CONDITIONS: Given a fire department tiller apparatus, a spotter for backing, cones, a restricted space 12 feet in width, requiring 90-degree right- or left-hand turn from the roadway so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions. Note: Depending on AHJ, candidate will drive the tiller and AHJ provides a certified driver for the tractor or the candidate will test driving both tractor and tiller positions.					
PERFORMANCE OUTCOME: The candidate shall back a fire department tiller aerial apparatus from a roadway into restricted space on both the right and left sides of the vehicles. (Alley Dock)					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing and moving apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Driver/passenger(s), tiller operator using passenger restraint devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Ensure the communication system between the tiller operator and the driver is operable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Maintain proper control of the trailer during the evolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Determine and maneuver the tiller apparatus into the correct position using a spotter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Complete the skill correctly without crossing over or striking any obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>			Equipment Stop Safety: Yes <input type="checkbox"/>		

Evaluator/Candidate Comments _____

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 Candidate Signature

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DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 4

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition	JPR: 7.2.1 & 4.3.3	SKILL AREA: General Skill Requirement: Driving Serpentine			
TASK: Maneuver fire department tiller apparatus around obstructions on a roadway while moving forward and in reverse. (Serpentine test)					
CONDITIONS: Given a fire department tiller apparatus, a spotter for safety while backing, cones, and a roadway with obstructions Note: Depending on AHJ, candidate will drive the tiller and AHJ provides a certified driver for the tractor or the candidate will test driving both tractor and tiller positions.					
PERFORMANCE OUTCOME: The candidate shall maneuver a fire department tiller apparatus around obstructions on a roadway while moving forward and in reverse.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing and moving apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Driver/passenger(s), tiller operator using passenger restraint devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Ensure the communication system between the tiller operator and the driver is operable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Maintain proper control of the trailer during the evolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Determine and maneuver the tiller apparatus into the correct position using a spotter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Complete the skill correctly without crossing over or striking any obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>			Equipment Stop Safety: Yes <input type="checkbox"/>		

Evaluator/Candidate Comments _____

Retest Approved by _____

 Evaluator (Print & Sign)

 Candidate Signature

 Date

 Retest Evaluator (Print & Sign)

 Candidate Signature

 Date



DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 5

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition	JPR: 7.2.1 & 4.3.4	SKILL AREA: General Skill Requirement: Driving Confined Space			
TASK: Turn a fire department aerial tiller apparatus around 180 degrees within a confined space.					
CONDITIONS: Given a fire department aerial tiller apparatus, a spotter for backing, cones, and a confined area where the vehicle cannot turn around without stopping and backing up. Note: Depending on AHJ, candidate will drive the tiller and AHJ provides a certified driver for the tractor or the candidate will test driving both tractor and tiller positions.					
PERFORMANCE OUTCOME: The candidate shall turn a fire department aerial tiller apparatus 180 degrees within a confined space.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing and moving apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Driver/passenger(s), tiller operator using passenger restraint devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Ensure the communication system between the tiller operator and the driver is operable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Maintain proper control of the trailer during the evolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Determine and maneuver the aerial tiller apparatus into the correct position using a spotter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Complete the skill correctly without crossing over or striking any obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>			Equipment Stop Safety: Yes <input type="checkbox"/>		

Evaluator/Candidate Comments _____

Retest Approved by _____

 Evaluator (Print & Sign)

 Candidate Signature

 Date

 Retest Evaluator (Print & Sign)

 Candidate Signature

 Date



DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 6

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition	JPR: 7.2.1 & 4.3.5	SKILL AREA: General Skill Requirement: Driving Diminishing Clearance			
TASK: Maneuver a fire department tiller aerial apparatus in areas with restricted horizontal and vertical clearances.					
CONDITIONS: Given a fire department tiller aerial apparatus, cones, and a course that requires the candidate to move through an area of restricted horizontal and vertical clearance. Note: Depending on AHJ, candidate will drive the tiller and AHJ provides a certified driver for the tractor or the candidate will test driving both tractor and tiller positions.					
PERFORMANCE OUTCOME: The candidate shall maneuver a fire department tiller aerial apparatus in areas with restricted vertical and horizontal clearance so that no obstructions are struck.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing and moving apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Driver/passenger(s), tiller operator using passenger restraint devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Ensure the communication system between the tiller operator and the driver is operable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Maintain proper control of the trailer during the evolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Determine and maneuver the tiller into the correct position using a spotter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Complete the skill correctly judging vehicle clearances and without crossing over or striking any obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	When asked, the candidate shall correctly provide the height and width of the apparatus.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>			Equipment Stop Safety: Yes <input type="checkbox"/>		

Evaluator/Candidate Comments _____

Retest Approved by _____

 Evaluator (Print & Sign)

 Candidate Signature

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DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 7

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition		JPR: 7.2.1, 7.2.2		SKILL AREA: Operations: Maneuver and position an tiller apparatus; Stabilize tiller apparatus			
TASK: Maneuver and position a tiller aerial apparatus, so that the apparatus is positioned for correct aerial device deployment. Stabilize a tiller aerial apparatus, so that power can be transferred to the aerial device hydraulic system and the device can be deployed.							
CONDITIONS: Given a fully equipped fire tiller aerial apparatus, an incident location, a situation description, and an assignment, the candidate shall demonstrate the ability to:							
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to: determine a correct position for the tiller aerial apparatus, maneuver tiller aerial apparatus into that position, and avoid obstacles to operations; and, transfer power from the vehicle's engine to the hydraulic system and operate tiller aerial apparatus stabilization devices.							
No.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Adjust mirrors before moving the tiller aerial apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Driver/passenger(s) using passenger restraint devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Determine a correct position for the apparatus.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Position and maneuver the apparatus into the desired angle for optimal stabilization (as per the manufacturer's recommendation and/or AHJ policy).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Perform "in-cab" procedures (as per the manufacturer's recommendation and/or AHJ policy).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Check for overhead obstructions and ensure proper apparatus placement prior to deploying stabilizers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Properly position wheel chocks for the appropriate wheel(s) as per the manufacturer's recommendation or AHJ Policy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Determine the appropriateness of the ground surface for stabilizer deployment and ensure there are no obstructions to fully deploying the stabilizer on the working side of the apparatus.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Stabilizer ground pads utilized for stabilization.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Deploy the stabilizers and raise the apparatus to its working position (as per the manufacturer's recommendation and/or AHJ policy) – apparatus should be as close to level as possible according to using leveling indicators.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.	Manual stabilizer locks utilized or (ensure internal locking mechanisms if applicable) are locked as per the manufacturer's recommendation and/or AHJ policy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.	Recognition of reduced load chart capability should be identified (if applicable). Describe AHJ policy and procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.	Fifth wheel or king pin locked Tiller (as per the manufacturer's recommendation and/or AHJ policy)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.	Aerial device can be raised from the cradle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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DRIVER/OPERATOR – TILLER

NFPA STANDARD: 1002, 2017 Edition		JPR: 7.2.1, 7.2.2		SKILL AREA: Operations: Maneuver and position an tiller apparatus; Stabilize tiller apparatus			
15.	Aerial device can be returned to the cradle and the apparatus returned to be ready for road travel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>				Equipment Stop Safety: Yes <input type="checkbox"/>			

Evaluator/Candidate Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

Date

Retest Evaluator (Print & Sign)

Candidate Signature

Date



DRIVER/OPERATOR – TILLER

Candidate Name _____ **Skill Sheet** 8

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1002, 2017 Edition		JPR: 7.2.3, 6.2.4		SKILL AREA: Operations: Maneuver and position the aerial device from each control station			
TASK: From each control station, maneuver and position the aerial device, so that the aerial device is positioned to accomplish the assignment.							
CONDITIONS: Given a fully equipped fire aerial apparatus, a situation description and location, and assignment, the candidate shall demonstrate the ability to:							
PERFORMANCE OUTCOME: Candidate shall demonstrate the ability to raise, rotate, extend, and position the aerial to a specified location, as well as lock, unlock, retract, lower, and bed the aerial device.							
No.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Ensure all safety devices are in place and properly used (slide-out platforms, safety chains, guardrails, dead-man switches, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Release the hold down locks (if equipped)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Check the intended path of the aerial device for obstructions. (overhead, ladder cradle, cabinetry, accessories, personnel, etc.) Note: All aerial operations must follow manufacture and local AHJ policy at all times.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Raise the aerial device to the desired (approximate) angle for the intended target	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Rotate the aerial to the desired (approximate) in-line position with the intended target	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Extend the aerial device toward the intended target	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Make final adjustments to ensure proper final aerial device placement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Ensures the final aerial device placement is within AHJ's policy in respect to window, fire escape, balcony, or roof placement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Maintain a safe, smooth, and efficient operation of the aerial device controls at all times	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Knows the aerial device raise/lower, rotate left/right, and extend/retract controls without having to look at the lever labeling between each operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.	Aligns aerial device ladder rungs (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.	Engages safety mechanisms (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.	Ensures communication device is turned on and operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.	Clear firefighters to safely climb the aerial ladder (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.	Monitor apparatus stability and aerial loads during evolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.	Retract/rotate/lower to return aerial device to bed and properly secure (as per the manufacturer's recommendation and/or AHJ policy)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Candidate Stop Safety: Yes <input type="checkbox"/>				Equipment Stop Safety: Yes <input type="checkbox"/>			

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DRIVER/OPERATOR – TILLER

Evaluator/Candidate Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

Date

Retest Evaluator (Print & Sign)

Candidate Signature

Date



**FIRE PROTECTION BUREAU
FIRE SERVICE CERTIFICATION
PO Box 42642
Olympia WA 98504-2642
(360) 596-3945**



DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 9

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition		JPR: 7.2.3, 6.2.4		SKILL AREA: Operations: Lower an aerial device using the emergency operating system			
TASK: Lower an aerial device using the emergency operating system, so that the aerial device is lowered to its bedded position.							
CONDITIONS: Given a fully equipped fire aerial apparatus, an aerial device, an incident location, a situation description, and an assignment, the candidate shall demonstrate the ability to:							
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to rotate and position to center, unlock, retract, lower, and bed the aerial device using the emergency operating system.							
No.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Clear aerial device of personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Drain the waterway (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Disengage the aerial device locks, if applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Ensure all safety devices are in place and properly used (slide-out platforms, safety chains, guardrails, dead-man switches, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Check the intended path of the aerial device for obstructions (overhead, ladder cradle, apparatus cabinetry, accessories, personnel, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Properly active the emergency operations system, (i.e. emergency power unit - EPU)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Allows for safety mechanisms to be operational, if able (short jack safety, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Retracts the aerial device fully	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Rotate the aerial device (to center, above the cradle) following the manufacturer's guidelines on the use of the emergency operating system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Lower the aerial device to bedded position and activate the hold-down locks or apply bedding pressure, whichever is applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.	Ensure process to complete fully bedded aerial device is followed (as per the manufacturer's recommendation and/or AHJ policy)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.	Monitor apparatus stability during evolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.	Maintain a safe, smooth, and efficient operation of aerial device controls at all times	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.	Disengages emergency operating system properly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.	Prepare Aerial Apparatus for road travel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Candidate Stop Safety: Yes <input type="checkbox"/>			Equipment Stop Safety: Yes <input type="checkbox"/>				

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DRIVER/OPERATOR – TILLER

Evaluator/Candidate Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

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Candidate Signature

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DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 10

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition		JPR: 6.2.5		SKILL AREA: Operations: Deploy and operate an elevated master stream			
TASK: Deploy and operate an elevated master stream so that the stream is effective and the aerial and master stream devices are operated correctly.							
CONDITIONS: Given a fully equipped fire aerial apparatus, an aerial device, a master stream device, the candidate will demonstrate the proper procedures to safely raise the aerial device and position the waterway to flow _____ gpm using a _____ inch smooth bore nozzle/fog nozzle, _____ feet in elevation with the ladder extended to _____ feet in a defensive firefighting mode. The aerial operator must calculate and flow the correct pump pressure for the situation described. The candidate shall complete the following:							
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to connect a water supply to a master stream device and control an elevated nozzle manually or remotely.							
No.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Demonstrate how to attach a portable ladder pipe/hose line (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Demonstrate how to adjust pin-able waterway in the appropriate position (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Demonstrates how to manually rotate the nozzle from side to side, by remote station or manually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Demonstrate how to manually raise and lower the nozzle by remote station or manually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Demonstrate how to manually adjust the spray pattern of nozzle by remote station or manually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Demonstrate how to change from a fog nozzle to a smooth bore tip with/without a stream straightener (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Connects to an adequate water supply to the proper water inlet (per manufacturers specifications and AHJ policy)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Maneuver and position the aerial device toward the intended target engage pump if equipped.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Smoothly open waterway discharge valve with minimal stress and movement of the aerial device and waterway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Discharges the correct gpm for the assigned task at _____ psi pump pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.	Monitors apparatus stability continually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.	Maintains communication with water supply group or officer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.	Smoothly closes waterway discharge valve with minimal stress and movement of the aerial device and waterway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.	Disengages pump (if equipped)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.	Close elevated master stream inlet valve and disconnect water supply from fire apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.	Opens waterway drain to drain waterway pipe completely prior to repositioning the ladder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.	Retract, rotate, and lower aerial device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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DRIVER/OPERATOR – TILLER

NFPA STANDARD: 1002, 2017 Edition		JPR: 6.2.5		SKILL AREA: Operations: Deploy and operate an elevated master stream			
18.	Disassemble any portable ladder pipe, hose line (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	Returns waterway pin to its stowed position (If applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	If a different nozzle was selected for the evolution, return the proper nozzle (per AHJ policy) to the elevated master stream appliance (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	Place the monitor to its correct stowed position prior to fully bedding the aerial device (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	Properly bed the aerial device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.	Prepare Aerial Apparatus for road travel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>				Equipment Stop Safety: Yes <input type="checkbox"/>			

Evaluator/Candidate Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

Date

Retest Evaluator (Print & Sign)

Candidate Signature

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DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 11

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition	JPR: 9.2.2	SKILL AREA: ARFF Operations: Modulating with Fire Streams			
TASK: Produce a fire stream while the ARFF vehicle is in motion.					
CONDITIONS: Given a fire department ARFF vehicle, a turret operator, and an aircraft mock-up as a target, the candidate shall properly modulate around the mock-up both forward and in reverse while applying a fire stream onto the mock-up, and continually monitor for potential problems.					
PERFORMANCE OUTCOME: Produce a fire stream while the ARFF vehicle is in motion both forward and in reverse modulation, while continually monitoring for any problems.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjusts and uses mirrors, driver/passengers wearing seat belts (exception: turret operator)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Engage fire/foam pump, determine correct position for the apparatus, and maneuver apparatus into that position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Apply agent through a fire stream onto the mock-up (forward)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Apply agent through a fire stream onto the mock-up (reverse)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Monitors for potential problems and avoids all obstacles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Candidate will describe and determine how long agent will be available based on flow rates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	All tasks are performed safely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>			Equipment Stop Safety: Yes <input type="checkbox"/>		

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 Candidate Signature

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DRIVER/OPERATOR – TILLER

Candidate Name _____ Skill Sheet 12

IFSAC ID _____ Date _____

NFPA STANDARD: 1002, 2017 Edition	JPR: 9.2.3	SKILL AREA: ARFF Operations: Producing Fire Streams			
TASK: Produce a fire stream from the internal tank, and a pressurized water source.					
CONDITIONS: Given a fire department ARFF vehicle, a turret operator, an aircraft mock-up as a target, and a pressurized water source, the candidate shall produce a fire stream using the internal water tank and a pressurized water source, so that the pump is engaged, the turrets are deployed, the agent is delivered to the intended target at the correct rate, and continually monitor for potential problems.					
PERFORMANCE OUTCOME: Produce a fire stream from the internal water tank, and a pressurized water source, while continually monitoring for any problems.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjusts and uses mirrors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Driver/passengers wearing seat belts (exception: turret operator)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Produces a fire stream onto the mock-up using the internal tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Produces a fire stream onto the mock-up using a pressurized source	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Monitors for potential problems and avoids all obstacles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Candidate will describe and determine how long agent will be available based on flow rates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	All tasks are performed safely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Score		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Stop Safety: Yes <input type="checkbox"/>			Equipment Stop Safety: Yes <input type="checkbox"/>		

Evaluator/Candidate Comments _____

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 Candidate Signature

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