

APPARATUS OPERATOR: PUMPER

SKILL SHEET PACKAGE

Based on *NFPA 1002: Standard for Fire Apparatus
Driver/Operator Professional Qualifications*, 2009 Edition.

ALABAMA FIRE COLLEGE

JUNE 2011

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Apparatus Operator: Pumper Skills

<u>Skill</u>	<u>Primary Task</u>	<u>JPR(s) Covered</u>
1	Preventive Maintenance - Operational Status of Vehicle	4.2.1/ 4.2.2/ 5.1.1
2	Driving/Operating	4.3.1
3	Serpentine Exercise	4.3.3
4	Alley Dock Exercise	4.3.2
5	Diminishing Clearance Exercise	4.3.5
6	Confined Space Turnaround	4.3.4
7	Produce Effective Hand and Master Streams	5.2.1
8	Pump a Supply Line	5.2.2
9	Produce a Properly Proportioned Foam Fire Stream	5.2.3
10	Supply Water to Fire Sprinkler and Standpipe Systems	5.2.4

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Apparatus Operator: Pumper Performance Evaluation Grade Sheet

Name: _____ Fire Department: _____

Address: _____

Training Location: _____ Date Started: _____

This Performance Evaluation Check-Off Sheet is to be used in conjunction with the Alabama Fire College Apparatus Operator: Pumper Skill Sheets. These skills meet all the requirements of NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition. Students must receive a passing grade on all skills in order to apply for Apparatus Operator: Pumper certification. Please submit a Performance Evaluation Grade Sheet for each student in the class to the test proctor.

Skill	Primary Task	Pass/Fail	Student Initial	Evaluator Initial	Date
1	Preventive Maintenance				
2	Driving/Operating				
3	Serpentine Exercise				
4	Alley Dock Exercise				
5	Diminishing Clearance Exercise				
6	Confined Space Turnaround				
7	Produce Effective Hand and Master Streams				
8	Pump a Supply Line				
9	Produce a Properly Proportioned Foam Fire Stream				
10	Supply Water to Fire Sprinkler and Standpipe Systems				

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**Apparatus Operator: Pumper
Skill Sheet**

Skill No. 1 JPR(s) 4.2.1; 4.2.2; 5.1.1

Primary Task: Preventive Maintenance- Operational Status of Vehicle

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire apparatus, its manufacturer's specifications and policies and procedures of the jurisdiction.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

INSTRUCTIONS TO THE CANDIDATE:

1. The candidate shall perform routine tests, inspections and servicing functions on the systems and components specified as listed while at the station.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Tests batteries				
2. Tests braking system				
3. Tests coolant system				
4. Tests electrical system				
5. Checks fuel				
6. Checks hydraulic fluids				
7. Checks oil				
8. Checks tires				
9. Checks steering system				
10. Inspects belts				
11. Inspects tools, appliances, and equipment				
12. Documents on Fire Department form				

Evaluator/Candidate comments:

Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score	
		Pass ___	Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score	
		Pass ___	Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #	

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Apparatus Operator: Pumper Skill Sheet

Skill No. 2 JPR(s) 4.3.1/4.3.5

Primary Task: Driving/Operating a Fire Department Vehicle

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire apparatus and a predetermined route on a public right-of-way that incorporates the maneuvers and features specified in the following chart.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

** Use IFSTA, *Pumping Apparatus Driver/Operator Handbook*, 2nd edition pp. 89-92 for specific measurements on driving course.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall operate a vehicle in compliance with all applicable state and local laws, departmental rules and regulations.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Maneuvers four left turns properly				
2. Maneuvers four right turns properly				
3. Maneuvers urban business street properly				
4. Maneuvers rural street properly				
5. Maneuvers stops properly				
6. Maneuvers left curves properly				
7. Maneuvers right curves properly				
8. Maneuvers railroad crossings properly				
9. Maneuvers entrance and exit to limited access highway properly				
10. Maneuvers two lane changes on limited access highway properly				
11. Maneuvers downgrades long enough to require downshift/braking properly				
12. Maneuvers upgrades steep enough to require downshift properly				
13. Backs vehicle properly				
14. Maneuvers through low clearance/bridge properly				

Evaluator/Candidate comments:

Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score	
		Pass __	Fail __
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score	
		Pass __	Fail __
Candidate Signature:	Date:	Candidate: Print Name or Candidate #	

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Apparatus Operator: Pumper Skill Sheet

Skill No. 3 JPR(s) 4.3.3

Primary Task: Serpentine Exercise

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire apparatus, a spotter for backing, and a roadway with obstructions.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

** Use IFSTA, *Pumping Apparatus Driver/Operator Handbook*, 2nd edition pp. 89-92 for specific measurements on driving course.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall maneuver a vehicle through the obstructions without stopping to change the direction of travel and without striking the obstructions
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Passes course marker on correct side				
2. Does not stop vehicle during course				
3. Does not hit course marker				

Evaluator/Candidate comments:

Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score	
		Pass ___	Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score	
		Pass ___	Fail ___
Candidate Signature:	Date:	Candidate: Print Name/Candidate #	

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**Apparatus Operator: Pumper
Skill Sheet**

Skill No. 4	JPR(s) 4.3.2
Primary Task: Alley Dock Exercise	

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire apparatus, a spotter, and restricted spaces 12 ft. in width, requiring 90-degree right-hand and left-hand turns from roadway.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

** Use IFSTA, *Pumping Apparatus Driver/Operator Handbook*, 2nd edition pp. 89-92 for specific measurements on driving course.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall park vehicle within the restricted areas without having to stop and pull forward and without striking obstructions.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
<u>Left Alley Dock</u>				
1. Pulls past the "dock"				
2. Backs into "dock" space				
3. Stops smoothly				
4. Does not hit rear of "dock"				
<u>Right Alley Dock</u>				
1. Pulls past the "dock"				
2. Backs into "dock" space				
3. Stops smoothly				
4. Does not hit rear of "dock"				

Evaluator/Candidate comments:		
Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score
		Pass ___ Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score
		Pass ___ Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #

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Apparatus Operator: Pumper Skill Sheet

Skill No. 5 JPR(s) 4.3.5

Primary Task: Diminishing Clearance Exercise

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire apparatus and a course that requires the operator to move through areas of restricted horizontal and vertical clearances.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

** Use IFSTA, *Pumping Apparatus Driver/Operator Handbook*, 2nd edition pp. 89-92 for specific measurements on driving course.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall accurately judge the ability of the vehicle to pass through the openings so that no obstructions are struck.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Maintains normal driving position				
2. Does not hit course marker				
3. Stops at finishing line without allowing vehicle to move				
4. Stops before bumper crosses finish line				

Evaluator/Candidate comments:		
Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score
		Pass ___ Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score
		Pass ___ Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #

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**Apparatus Operator: Pumper
Skill Sheet**

Skill No. 6	JPR(s) 4.3.4
Primary Task: Confined Space Turnaround Exercise	

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire apparatus, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

** Use IFSTA, *Pumping Apparatus Driver/Operator Handbook*, 2nd edition pp. 89-92 for specific measurements on driving course.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall turn the vehicle 180-degrees without striking obstructions within the given space.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Maintains normal driving position				
2. Clears course markers				
3. Stops within boundary				

Evaluator/Candidate comments:			
Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score	
		Pass ___	Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score	
		Pass ___	Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #	

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**Apparatus Operator: Pumper
Skill Sheet**

Skill No. 7	JPR(s) 5.2.1
Primary Task: Produce Effective Hand and Master Streams	

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire department pumper, an internal tank, a pressurized hydrant, static water source, master stream device, hand nozzle, 100 feet of 2^{1/2}" discharge hose, and 100 feet of 1^{3/4}" discharge hose.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall produce effective hand or master streams
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Positions fire department pumper to operate at a pressurized fire hydrant and at a static water source				
2. Engages parking break				
3. Engages pump				
4. Produces effective water stream from static water source to master stream device				
5. Produces effective water stream from pressurized hydrant to master stream device				
6. Produces effective water stream from static water source to hand held nozzle				
7. Produces effective water stream from pressurized hydrant to hand held nozzle				
8. Operates auxiliary cooling system controls				
9. Operates pressure control device				
10. Calculates friction loss and gallons per minute for each scenario given				
11. Assembles hose lines, nozzles, valves and appliances as necessary				

Evaluator/Candidate comments:		
Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score
		Pass ___ Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score
		Pass ___ Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #

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Apparatus Operator: Pumper Skill Sheet

Skill No. 8 JPR(s) 5.2.2

Primary Task: Pump a Supply Line of 2^{1/2} Inches or Larger

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire department pumper, an internal tank, a pressurized hydrant, static water source, 2^{1/2}" or larger supply line and a relay pumping evolution the length and size of the line, and the desired flow and intake pressure.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall pump a supply line of 2^{1/2} inches or larger so that correct pressure and flow are provided.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Positions fire department pumper to operate at a pressurized fire hydrant and at a static water source				
2. Engages parking break				
3. Engages pump				
4. Operates auxiliary cooling system controls				
5. Operates pressure control device				
6. Calculates friction loss and gallons per minute for each scenario given				
7. Assembles hoselines, nozzles, valves, and appliances as necessary				

Evaluator/Candidate comments:

Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score	
		Pass ___	Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score	
		Pass ___	Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #	

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**Apparatus Operator: Pumper
Skill Sheet**

Skill No. 9 JPR(s) 5.2.3

Primary Task: Produce a Properly Proportioned Foam Fire Stream

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire department pumper, an internal tank, a pressurized hydrant, foam proportioner, nozzle matched to foam proportioner, and 100 feet of 1^{3/4}" fire hose.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall produce a properly proportioned foam fire stream.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Positions fire department pumper to operate at a pressurized fire hydrant and at a static water source				
2. Engages parking break				
3. Engages pump				
4. Assembles hoselines, nozzles, valves and appliances as necessary				
5. Sets concentration on proportioner				
6. Adjusts gallons per minute on nozzle to match foam proportioner				
7. Operates pressure control device				
8. Calculates friction loss and gallons per minute for each scenario given				
9. Operates auxiliary cooling system controls				

Evaluator/Candidate comments:		
Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score
		Pass ___ Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score
		Pass ___ Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #

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Apparatus Operator: Pumper Skill Sheet

Skill No. 10 JPR(s) 5.2.4

Primary Task: Supply Water to Fire Sprinkler and Standpipe Systems

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate shall be provided with a fire department pumper, an internal tank, a pressurized hydrant, static water source, and 100 feet of 2^{1/2}" fire hose.
2. The monitor/evaluator shall prevent or prohibit any unsafe acts.
3. The monitor/evaluator will only evaluate, not act as a trainer.

INSTRUCTIONS TO THE CANDIDATE

1. The candidate shall supply water to fire sprinkler and standpipe systems.
2. The skill will end when the candidate states or indicates to the monitor that all the identified steps are completed.
3. The candidate shall notify the monitor/evaluator at any time there is a safety concern.

REFERENCE SOURCE:

NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*, 2009 edition

Performance steps	Test		Retest	
	Pass	Fail	Pass	Fail
Safely performs the following steps.				
1. Positions fire department pumper to operate at a pressurized fire hydrant and at a static water source				
2. Engages parking break				
3. Engages pump				
4. Assembles hoselines, nozzles, valves and appliances as necessary				
5. Operates the volume/pressure transfer valve (Multistage pumps only)				
6. Transitions between internal and external water sources				
7. Operates pressure control device				
8. Calculates friction loss and gallons per minute for each scenario given				
9. Operates auxiliary cooling system controls				

Evaluator/Candidate comments:

Evaluator/Candidate comments:		
Evaluator: Print Name/Signature:	Date:	Overall Skill Sheet Score
		Pass ___ Fail ___
Re-Test Evaluator Signature:	Date:	Overall Skill Sheet Re-Test Score
		Pass ___ Fail ___
Candidate Signature:	Date:	Candidate: Print Name or Candidate #