



Appendix D

NFPA 1002

Fire Apparatus Driver/Operator Professional Qualifications

This document is an appendix to the Evaluation and Certification Guide published by the Saskatchewan Office of the Fire Commissioner. Use this appendix in conjunction with the Guide.



Saskatchewan Fire Service Evaluation and Certification Guide

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Introduction

NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications identifies the Job Performance Requirements (JPR's) that must be completed to gain qualification as an Apparatus Driver/Operator.

This appendix covers both Apparatus Equipped with Fire Pump and Apparatus Equipped with Aerial Device. This appendix contains information on completing the certification process. It also contains a record keeping system participants must use to record their progress within this program towards certification under the International Fire Service Accreditation Congress (IFSAC).

Qualification and Certification Steps

To gain certification for Apparatus Equipped with Fire Pump the individual must:

1. Produce a letter from their Fire Chief indicating they are a member of a fire department, have received training and are adequately prepared for evaluation. The letter must identify the individual is at least 18 years of age and is not restricted or limited in driving a vehicle.
2. Be certified under NFPA 1001 Standard for Fire Fighter Professional Qualifications, Level 1.
3. Complete all NFPA 1002 JPR's through self-study, training on the job and/or through courses and seminars.
4. Successfully pass a 100 question written evaluation based upon the IFSTA Pumper Apparatus Driver/Operator Handbook (1st Edition), Fire Department Pumping Apparatus (7th Edition) and Water Supplies for Fire Protection (4th Edition) manuals within 2 hours and attain a 70% pass mark.
5. Successfully complete a practical evaluation based on the Job Performance Requirements outlined in this appendix and NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications.

To gain certification for Apparatus Equipped with Aerial Device the individual must:

1. Produce a letter from their Fire Chief indicating they are a member of a fire department, have received training and are adequately prepared for evaluation.
2. Be certified under NFPA 1002 Apparatus Equipped with Fire Pump.
3. Complete all NFPA 1002 JPR's through self-study, training on the job and/or through courses and seminars.
4. Successfully pass a 50 question written evaluation based upon the IFSTA Aerial Apparatus Driver/Operator Handbook, First Edition within 1 hour and attain a 70% pass mark.
5. Successfully complete a practical evaluation based on the Job Performance Requirements outlined in this appendix and NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications.

NOTE:

1. All written and practical evaluations are based on the **metric system** of measurement.
2. A calculator, slide rule or other method for solving mathematical problems is permitted during the written evaluation.

Page 1 of 2 General Requirements (all Apparatus)	1002 Ref.	Date	Initials												
Perform routine tests, inspections, and servicing functions on the systems and components specified in the following list, given a fire department vehicle and its manufacturer's specifications, so that the operational status of the vehicle is verified:															
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">1. Battery (ies)</td> <td style="width: 50%;">7. Oil</td> </tr> <tr> <td>2. Braking system</td> <td>8. Tires</td> </tr> <tr> <td>3. Coolant system</td> <td>9. Steering system</td> </tr> <tr> <td>4. Electrical system</td> <td>10. Belts</td> </tr> <tr> <td>5. Fuel</td> <td>11. Tools, appliances, and equipment</td> </tr> <tr> <td>6. Hydraulic fluids</td> <td></td> </tr> </table>	1. Battery (ies)	7. Oil	2. Braking system	8. Tires	3. Coolant system	9. Steering system	4. Electrical system	10. Belts	5. Fuel	11. Tools, appliances, and equipment	6. Hydraulic fluids		4.2.1		
1. Battery (ies)	7. Oil														
2. Braking system	8. Tires														
3. Coolant system	9. Steering system														
4. Electrical system	10. Belts														
5. Fuel	11. Tools, appliances, and equipment														
6. Hydraulic fluids															
Document the routine tests, inspections, and servicing functions, given maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported.	4.2.2														
<p>Operate a fire department vehicle, given a vehicle and a predetermined route on a public way that incorporates the maneuvers and features, specified in the following list, that the driver/operator is expected to encounter during normal operations, so that the vehicle is operated in compliance with all applicable state and local laws, departmental rules and regulations, and the requirements of NFPA 1500, Section 4.2:</p> <ol style="list-style-type: none"> 1. Four left turns and four right turns 2. A straight section of urban business street of a two-lane rural road at least 1.6 km (1 mile) in length 3. One through-intersection and two intersections where a stop has to be made 4. One railroad crossing 5. One curve, either left or right 6. A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow two lane changes 7. A downgrade steep enough and long enough to require down-shifting and braking 8. An upgrade steep enough and long enough to require gear changes to maintain speed 9. One underpass or a low clearance or bridge 	4.3.1														

Page 2 of 2 General Requirements	1002 Ref.	Date	Initials
Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 3.7 m (12 ft) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions	4.3.2		
Maneuver a vehicle around obstructions on a roadway while moving forward and in reverse, given a fire department vehicle, a spotter for backing, and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions	4.3.3		
Turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space	4.3.4		
Maneuver a fire department vehicle in areas with restricted horizontal and vertical clearances, given a fire department vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator accurately judges the ability of the vehicle to pass through the openings and so that no obstructions are struck	4.3.5		
Operate a vehicle using defensive driving techniques under emergency conditions, given a fire department vehicle and emergency conditions, so that control of the vehicle is maintained	4.3.6		
Operate all fixed systems and equipment on the vehicle not specifically addressed elsewhere in this standard, given systems and equipment, manufacturer's specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies	4.3.7		

Date JPR's Completed

Fire Chief, Fire Service Instructor, Supervisor signature

Page 1 of 2 Apparatus Equipped with Fire Pump	1002 Ref.	Date	Initials
Perform routine tests, inspections, and servicing functions on the systems and components specified in the standard, given a fire department vehicle and its manufacturer's specifications, so that the operational status of the vehicle is verified.	2.2.1		
Document the routine tests, inspections, and servicing functions, given maintenance and inspection forms, so that all items are checked for proper operation and deficiencies are reported.	2.2.2		
Operate a fire department vehicle, given a vehicle and a predetermined route on a public way that incorporate the maneuvers and features specified in the following list that the driver/operator is expected to encounter during normal operations, so that the vehicle is safely operated in compliance with all applicable provincial and local laws, departmental rules and regulations and the requirements of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program Section 4-2.	2-3.1		
Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 12 ft. (3.66m) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.	2-3.2		
Maneuver a vehicle around obstruction on a roadway while moving forward and in reverse, given a fire department vehicle, a spotter for backing and a roadway with obstructions, so that vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.	2-3.2		
Turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space.	2-3.4		
Maneuver a fire department vehicle in areas with restricted horizontal and vertical clearances, given a fire department vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator accurately judges the ability of the vehicle to pass through the openings and so that no obstructions are struck.	2-3.5		
Operate a vehicle using defensive driving techniques under emergency conditions, given a fire department vehicle and emergency conditions so that control of the vehicle is maintained.	2-3.6		
Operate all fixed systems and equipment on the vehicle not specifically addressed elsewhere in this standard, given systems and equipment, manufacturer's specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.	2-3.7		

JPRs for Fire Apparatus Equipped with Fire Pump

Name: _____

Page 2 of 2 Apparatus Equipped with Fire Pump	1002 Ref.	Date	Initials
Perform the specified routine tests, inspections, and servicing functions specified in the following list in addition to those contained in the list in 2-2.1, given a fire department pumper and its manufacturer's specifications, so that the operational status of the pumper is verified.	3-1.1		
Perform the practical driving exercises specified in 2-3.2, through 2-3.5, given a fire department pumper and a spotter for backing, so that each exercise is performed safely without striking the vehicle or obstructions.	3-1.2		
Operate a fire department pumper over a predetermined route on a public way that incorporates the maneuvers and features specified in the list 2-3.1, so that the vehicle is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.	3-1.3		
Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.	3-2.1		
Pump a supply line of 2 ½ in. (65mm) or larger, given a relay pumping evolution the length and size of the line and desired flow and intake pressure, so that the proper pressure and flow are provided to the next pumper in the relay.	3-2.2		
Produce a foam fire stream, given foam-producing equipment, so that properly proportioned foam is provided.	3-2.3		
Supply water to fire sprinkler and standpipe systems, given specific system information and a fire department pumper, so that water is supplied to the system at the proper volume and pressure.	3-2.4		

Date JPR's Completed

Fire Chief, Fire Service Instructor, Supervisor signature

JPRs for Fire Apparatus Equipped with Aerial Device

Name: _____

Page 1 of 1 Apparatus Equipped with Aerial Device	1002 Ref.	Date	Initials
Perform the routine tests, inspections, and servicing functions specified in the following list in addition to those specified in 4.2.1, given a fire department aerial apparatus, so that the operational readiness of the aerial apparatus is verified: (1) Cable systems (if applicable) (2) Aerial device hydraulic systems (3) Slides and rollers (4) Stabilizing systems (5) Aerial device safety systems (6) Breathing air systems (7) Communication systems	6.1.1		
Maneuver and position an aerial apparatus, given an aerial apparatus, an incident location, a situation description, and an assignment, so that the apparatus is positioned for correct aerial device deployment.	6.2.1		
Stabilize an aerial apparatus, given a positioned vehicle and the manufacturer's recommendations, so that power can be transferred to the aerial device hydraulic system and the device can be deployed.	6.2.2		
Maneuver and position the aerial device from each control station, given an incident location, a situation description, and an assignment, so that the aerial device is positioned to accomplish the assignment.	6.2.3		
Lower an aerial device using the emergency operating system, given an aerial device, so that the aerial device is lowered to its bedded position.	6.2.4		
Deploy and operate an elevated master stream, given an aerial device, a master stream device, and a desired flow so that the stream is effective and the aerial and master stream devices are operated correctly.	6.2.5		

Date JPR's Completed

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