

CLEARWATER FIRE & RESCUE TRAINING BUREAU



TILLER OPERATOR TASK BOOK #4

Candidate Name (printed)	Signature	Beginning Date
Candidate Station/Shift	08#	Hire Date
Lieutenant (print)	Signature	Completion date
Assistant Chief (print)	Signature	Date

Updated 01/09

Task Book Qualification Record Books have been developed for various certifications for different pieces of apparatus within the Clearwater Fire & Rescue Department. Each task book lists the job performance requirements (JPRs) for the specific qualification level in a format that allows a candidate to be trained and evaluated during three (3) sequential sessions. Successful performance of all tasks, as observed and recorded by a qualified and approved evaluator, will result in the candidate's eligibility to become certified as an Acting or permanent Driver Operator by the Clearwater Fire & Rescue Department.

To become certified as a D/O on a specific piece of fire apparatus, the candidate must successfully complete the job performance requirements. The candidate for each task book must meet all the prerequisite requirements prior to beginning the task book. It is recommended that the task books be completed in order. It is also recommended that in each task book the JPR's be completed in order. Before a job performance evaluation can be taken, all requisite knowledge and skills must be satisfied.

The evaluator shall be the candidate's immediate supervisor, (Lt) and/or the supervisor (Lt) for the specific unit the candidate is training to drive and operate. The Lieutenant may choose to delegate some or all of the evaluations to the assigned Driver Operator. Ultimately the Lieutenant will have to approve the completion of the task book, as well as the candidates Assistant Chief.

The JPR evaluations are a simple pass or fail. If a candidate fails his or her evaluation, then they must receive additional training in the area he or she was deficient in. The JPR is not signed off until the candidate retests and passes. The candidate must successfully demonstrate each JPR three times in order to complete the JPR.

When all prescribed requirements have been met, the task book will be forwarded to the Clearwater Fire Rescue Training Bureau. The task book will be filed at training, and a certificate will be issued to certify the candidate is an Acting Driver Operator on that specific type of apparatus.

How to Evaluate Performance:

Each JPR has three corresponding boxes in which to confirm a candidate's success in a sequence. The evaluator shall indicate successful passing by the candidate of each JPR by printing their name, signing and dating in the boxes provided for that JPR. There is no time restriction between the three evaluations; however they must be completed on three separate dates. Each JPR shall be demonstrated to the evaluator and must meet the standards set forth in this document to the evaluator's expectation. It is recommended that the JPR's be completed in sequence. The three sequences for each JPR cannot be accomplished all in one day. They must have been signed off and completed on different dates.

Prerequisites for the Tiller Operator Candidate.

All prerequisites must be met prior to the final approval of this task book

1. Must have a 16-hour EVOC certificate, and most current refresher.
2. Must have completed all Firefighter Probationary requirements.

References for this Task Book

1. Clearwater Fire Rescue Driver Operator Manual
2. Clearwater Fire Rescue Tiller Operator Manual
3. Clearwater Fire & Rescue Policies & Procedures
4. Pierce Tiller Aerial Operations & Maintenance Manual
5. NFPA 1002
6. NFPA 1500
7. VFIS Driver Competency Course

4.1 Morning Check: Performs the routine tests, inspections, and servicing functions specified in the list below, on the tiller portion of the vehicle, given a Clearwater Fire Rescue Department Tractor Drawn Aerial, so that the operational readiness of the apparatus is verified. Notifies the Tractor Driver of any deficiencies discovered and ensures proper documentation is completed.

- Check all lights
- Check wipers
- Check tools, appliances, and equipment
- Check steering system
- Check turn signals
- Communications system
- Check seat belts.
- Tractor & Tiller signaling devices
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Requisite Knowledge: Basic vehicle systems, maintenance procedures, daily check procedures, manufactures specifications and maintenance requirements, and ability to identify mechanical problems and potential safety hazards.

Requisite Skills: The ability to use hand tools, recognize system problems, and correct any deficiency noted according to department policies and procedures.

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4.2 Road Course: Operate the tiller cab of a tractor drawn aerial, given a vehicle and a predetermined route on a public way that incorporates the maneuvers and features specified in the following list that the candidate is expected to encounter during normal operations, so that the vehicle is safely operated with due regard for the safety of others, and in compliance with all applicable state and local laws, department policies and procedures. Each driving session shall incorporate at least 2 hours of actual time on the road driving and include all of the objectives listed below. At least one of the three driving sessions shall be conducted after dark so the candidate may experience night driving conditions. Proper signals shall be given to the Tractor Operator prior to the vehicle moving or changing direction

- Four left and four right turns
- A straight section of urban business street at least 1 mile in length
- One through –intersection and two intersections where a stop has to be made
- One railway crossing (if in district)
- Two curves, both left and right
- A section of limited-access highway that includes a conventional ramp entrance and exit in a section of road long enough to allow two lane changes. (US 19)

Requisite Knowledge: The effects on vehicle control, awareness of blind spots, load factors, general steering reactions, speed, and centrifugal force; applicable laws and regulations; principles of skid avoidance, night driving, negotiating intersections, railroad crossings, and bridges; identification and operation of automobile gauges, and proper operation limits.

Requisite Skills: The ability to operate passenger restraint devices, maintain safe control of the trailer, while the Driver is accelerating, decelerating, and turning, maintain control of the trailer based on various road, weather, and traffic conditions, operate safely during non-emergency conditions, operate under adverse environmental or driving surface conditions, and use automotive gauges and controls.

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4.3 Alley Dock: Back a vehicle from a roadway into a restricted space on both right and left sides of the vehicle, (alley) given a Tractor Drawn Aerial Truck, and a spotter, and restricted space 12 feet in width, and 60 feet long, requiring a 90 degree right hand turn and left hand turn from the roadway, so that the vehicle is parked within the restricted areas without having to stop or pull forward and without striking obstructions. Proper signals shall be given to the Tractor Operator prior to the vehicle moving or changing direction.

Requisite Knowledge: Vehicle dimensions, turning characteristics, mirror usage, spotter signaling, and principles of safe vehicle operation.

Requisite Skills: The ability to operate under emergency conditions, judge vehicle clearance, and operate the vehicle safely.

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4.4 Serpentine Maneuver a vehicle around obstructions on a roadway while moving forward and in reverse. Operate a fire department Tractor Drawn Aerial, given a spotter for backing, and a course with six obstructions (cones) spaced 40 feet apart, so that the vehicle is maneuvered through the obstruction without stopping to change the direction of travel and without striking the obstructions. Proper signals shall be given to the Tractor Operator prior to the vehicle moving or changing direction

Requisite Knowledge. Vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation.

Requisite Skills. The ability to use mirrors, judge vehicle clearance, and operate the vehicle safely

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4.5 Diminishing Clearance Maneuver the trailer portion of a fire department Tractor Drawn Aerial in areas with restricted horizontal clearances, given a course that requires the operator to move through areas of restricted horizontal clearances. The candidate shall accurately judge the ability of the vehicle to pass through the openings so that no obstructions are struck. The diminishing clearance course shall be 75 feet in length, at the beginning opening it shall be 12 feet in width, and gradually diminish down to 9 feet 6 inches at the other end. . Proper signals shall be given to the Tractor Operator prior to the vehicle moving or changing direction

Requisite Knowledge. Vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation. Proper tractor/tiller signals.

Requisite Skills: The ability to judge vehicle clearance, and operate the vehicle safely.

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4.6 Proper Positioning The candidate shall demonstrate their ability to properly position the trailer portion of the aerial apparatus for ladder deployment, given a designated target, an incident location, an assignment, and a qualified tractor operator. Proper signals shall be given to the Tractor Operator prior to the vehicle moving or changing direction.

Prerequisite Knowledge: Fireground operational guidelines, capabilities and limitations of the aerial ladder related to reach, tip load, angle of inclination, effects of topography, ground, and weather conditions on safe ladder deployment and use of the aerial ladder.

Prerequisite Skills: The ability to determine the appropriate position for the apparatus based on the target and situation, perform a rapid size up of the fireground, maneuver the vehicle into position, and avoid obstacles and overhead wires.

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4.7 Aerial Stabilization The Candidate shall demonstrate how to properly stabilize the apparatus for aerial ladder deployment. Given a properly positioned aerial ladder apparatus, ensuring there is adequate room to place the outriggers, properly set the vehicles outriggers so that the power can be transferred to the aerial ladders hydraulic system, and the ladder can be safely deployed. . Candidate shall be able to assist the tractor operator in the placement of wheel chocks, ground pads, and jack pins.

Requisite Knowledge: Aerial apparatus hydraulic systems, manufactures specifications for stabilization, limitations of short jacking the outriggers, and effects of topography and ground conditions on safe stabilization.

Requisite Skills: The ability to transfer power from the vehicle's engine to the hydraulic system and operate vehicle stabilization devices. Ability to properly place the ground pads for the outriggers, use wheel chocks, and set front wheel lock.

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4.8 Generator & Portable Equipment Operation The Candidate shall demonstrate properly engaging the generator to provide electrical power for lighting and power to the cord reels. The candidate shall also demonstrate setting up the following electric power devices in a designated location at least 50 feet from the vehicle.

- PPV Fan
- Portable light
- Reciprocating saw

Requisite Knowledge: The mechanics of the apparatus and its operating system as well as manufactures specifications.

Requisite Skills: The understanding of and ability to engage the Power Transfer to operate the vehicle generator. Ability to use all power and portable equipment carried on the vehicle. Ability to use the vehicle electrical power systems, including cord reels, breakers, plugs, adapters.

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4.9 Operate Ladder Pipe The candidate shall assist the aerial operator in the proper procedure in establishing a master stream from the aerial. . Given a

properly positioned aerial ladder, and a water supply, the candidate will make the hose connections to the vehicle and establish a water supply to the aerial. The candidate shall also demonstrate how to properly pin the waterway to the fly section if additional height is needed for the stream.

Requisite Knowledge: Recognize the effects that flowing water has on the aerial, and understand the flows of the various tip sizes, ability to read the flow meters and calculate total gallons flowed. Appropriate control operations and specific ladder limitations. Use and applications of the pinable waterway.

Requisite Skills: The ability to operate the aerial while water is flowing, and operate the nozzle from a remote location such as the pedestal. The ability to change the waterway from Rescue position to fly section if applicable.

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4.10 Stokes Basket Operation The candidate shall demonstrate the proper method of setting up a stokes basket operation using the aerial ladder as a hoisting device. The candidate shall properly attach the manufactures roller device to the end of the aerial, and properly secure an anchor point to the trunion at the turntable.

Requisite Knowledge: Ropes, Knots and rigging procedures, manufactures load limitations on the aerial ladder.

Requisite Skills: The ability to properly package, secure, and rig a stokes basket for hoisting, proper method of securing the roller to the tip of the aerial, correct method of creating an anchor hitch, basic ropes, knots and rigging procedures,

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4.11 Lowering the Ladder The candidate shall demonstrate the proper method of spotting the aerial ladder while the operator lowers it back into the vehicles cradle. . The candidate shall ensure the aerial's nozzle is properly stowed and that they are in the correct position to serve as a spotter, and they can signal the aerial operator.

Requisite Knowledge Correct stowed position of the nozzle, clearance requirements of the ladder, safe operation parameters of the ladder and operations near electrical hazards and overhead obstructions.

Requisite Skills: The ability to communicate signals to the aerial operator. Acknowledging the cause and effect of each maneuver of the aerial during operations.

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