

<b>GENERAL REQUIREMENTS</b>			
<b>4-1 PREREQUISITES</b>			
4-1.1 Must be <i>engine</i> qualified.			
4-1.2 Must be <i>tiller</i> qualified.			
<b>TILLERED AERIAL APPARATUS</b>			
<b>5-1 POLICIES AND LAWS</b>			
5-1.1 Identify all applicable state and local laws, including rules and regulations, governing the safe driving and operation of <i>tillered aerial apparatus</i> on emergency responses.	EVAPP		
5-1.2 Identify all Department policies which define <i>tillered aerial apparatus</i> driving practices.	District Policies		
5-1.3 Describe the safety precautions necessary when driving <i>tillered aerial apparatus</i> during adverse environmental conditions.	EVAPP IFSTA Aerial Apparatus		
5-1.4 Explain the safety procedures when <b>backing</b> a <i>tillered aerial apparatus</i> .			
5-1.5 Explain the types of "jack-knife skids", how they occur and how to correct in case of such events.	Ladder manual		
<b>5-2 CHASSIS CHECKS</b>			
5-2.1 Demonstrate the performance of routine tests, inspections and servicing functions required to assure the operational status of fire department <i>tillered aerial apparatus</i> , including: -battery checks -braking system -coolant system -electrical system -hydraulic system -fueling -lubrication -oil levels -steering system -tire care -tools, equipment and accessories			

5-2.2 Identify all dash controls and gauges and describe their purposes.			
5-2.3 Identify the air restriction gauge, if equipped and define its operation.	EVAPP, daily and weekly check forms		
5-2.4 Identify the emergency shut-down system and demonstrate its use.	LTI manual		
5-2.5 Identify the PTO shift controls and demonstrate their operations.	" "		
5-2.6 Demonstrate the heating/defroster control operation.			
5-2.7 Demonstrate the departments "daily" check of a <i>tillered aerial apparatus</i> .			
5-2.8 Demonstrate the departments "weekly" check of a <i>tillered aerial apparatus</i> .			
5-2.9 Demonstrate the weekly inventory of a <i>tillered aerial apparatus</i> .	Daily checklist		
5-2.10 Demonstrate a scene illumination evolution using the <i>Hydra-Gen</i> . Evolution to be performed at <u>night</u> .	Weekly checklist		
5-2.11 Describe the mechanics of the 60 Series DDEC diesel motor.	Inventory forms		
5-2.12 Describe the mechanics of the Allison 741EB transmission.			
5-2.13 Identify the transmission retarder control and explain the operation and mechanics of this device.	LTI manual		
5-2.14 Define the communications options between the tractor operator and the tiller operator.	" "		
5-2.15 Demonstrate the safe and proper installation of the "Pewag" tire chains on the tractor and tiller axle.			
<b>5-3 RODEO AND ROAD COURSES</b>			
5-3.1 Successfully complete the EVAPP rodeo course with a <i>tillered aerial apparatus</i> . To be completed in the tractor position.	Ladder manual		
5-3.2 Successfully complete the EVAPP road course with a <i>tillered aerial apparatus</i> . To be completed in the tractor position.			
5-3.3 Given 5 randomly selected targets, successfully "spot" the aerial turntable as directed by the company officer.	EVAPP		

<b>5-4 OUTRIGGER SYSTEM</b>			
5-4.1 Identify the outrigger system components and controls.			
5-4.2 Explain the "built-in" safety devices and over-rides and when or if they are to be used.			
5-4.3 Identify the set-up limitations relative to slope and define the green, yellow, and red boundaries.	LTI manual		
5-4.4 Identify the required commands and communications of a multi-person outrigger set-up evolution.	" "		
5-4.5 Demonstrate the stabilization of the aerial device by use of the outrigger system. Identify the four (4) items to be completed for safe set-up.	" "		
5-4.6 Demonstrate "short-jacking" and explain its use and limitations. Discuss safety considerations.	Ladder manual		
<b>5-5 AERIAL DEVICE</b>	" "		
5-5.1 Identify the construction type, components, length, and load capabilities of the aerial device.			
5-5.2 Identify the turntable controls and explain their operation and use.			
5-5.3 Identify the turntable accessories and demonstrate their use.	LTI manual		
5-5.4 Identify the <b>Manual Circuit Selector</b> and explain its use.	" "		
5-5.5 Identify the aerial device accessories and explain their operation and uses.	" "		
5-5.6 Explain the maintenance requirements of the aerial device.	" "		
5-5.7 Identify the <b>EPU system</b> and demonstrate how to use that system to lower the aerial device and retract the outriggers should the primary systems fail.	" "		
5-5.8 Explain the safety considerations to be followed during fireground aerial device use.	" "		
<b>5-6 WATERWAY</b>			

5-6.1 Identify the components of the aerial waterway. Identify piping sizes, discharge tip sizes, flow capabilities, and controls.	Ladder manual		
5-6.2 Identify the controls for the waterway monitor and demonstrate their use. Discuss stream direction control by use of the nozzle vs the turntable.			
5-6.3 Identify the incoming pressure requirements for watertower evolutions.	LTI manual		
5-6.4 Explain the "standpipe" set-up of the waterway.	" "		
<b>5-7 TILLER</b>	TNG 602		
5-7.1 Explain the mechanics and function of the tiller mechanism of the apparatus. Discuss maintenance requirements and checks for the tiller mechanism.			
5-7.2 Describe why it is necessary to slooow down on bad (bumpy) roads and the effects that has on the tillerperson and the rest of the vehicle.			
<b>5-8 GROUND LADDERS AND EQUIPMENT</b>			
5-8.1 Identify the ground ladders carried on the tillered aerial apparatus.	LTI manual		
5-8.2 Demonstrate a 20' wall ladder evolution.			
5-8.3 Identify the Amkus tool components and demonstrate their use.	Ladder manual		
5-8.4 Identify the Air Bag system and demonstrate its use.			
5-8.5 Identify the Rope Rescue equipment carried on the apparatus and discuss its use.			
5-8.6 Identify the Water Rescue equipment carried on the apparatus and discuss its use.			
5-8.7 Identify the components of the stokes and discuss its use and safety considerations. Demonstrate patient packaging when using the stokes.			
5-8.8 Identify the Salvage and Overhaul equipment carried on the apparatus.			

<b>5-9 AERIAL EVOLUTIONS</b>			
5-9.1 Per the <b>Truck 61 Competency Appraisal</b> , demonstrate an <i>aerial ladder operation</i> . (stabilizing the apparatus and “flying” the aerial. 1 person set-up)			
5-9.2 Ascend the aerial device when set-up at maximum elevation and extension. Must be in full PPE and breathing from the SCBA. <b>Ladder belt is required.</b>			
5-9.3 Per the <b>Truck 61 Competency Appraisal</b> , demonstrate a <i>stokes evolution</i> . (1 person set-up)			
5-9.4 Per the <b>Truck 61 Competency Appraisal</b> , demonstrate an <i>elevated master stream</i> evolution. (1 person set-up, for the aerial portion)			
5-9.5 Demonstrate the tractor operators role in the following three (3) person evolutions: <ul style="list-style-type: none"> <li>- "<i>stabilizing the apparatus</i>"</li> <li>- "<i>aerial to the roof for ventilation</i>"</li> <li>- "<i>rescue with the aerial</i>"</li> <li>- "<i>stokes with the aerial</i>"</li> <li>- "<i>elevated master stream</i>"</li> </ul>			
5-9.6 Describe four (4) common problems that may occur while performing aerial operations.			
5-9.7 Describe the preferred fireground role of the tractor operator (above and beyond aerial set-up and operations).	Ladder manual		
5-9.8 Discuss the positioning of the aerial apparatus and set-up considerations when forced to position on a hill.			
<b>5-10 BATTALION CHIEF'S EVALUATION</b>			
5-10.1 Successfully perform a "Chief's Choice" aerial evolution, performed as the tractor driver. To be evaluated by the Training Officer and your Battalion Chief.			

5-10.2 Demonstrate complete knowledge of a randomly selected performance objective, selected by your Battalion Chief. To be evaluated by the Training Officer and your Battalion Chief.			
5-10.3 Successfully complete the written test with a passing score of 70% or higher. Make sure the test is corrected by a FATS person or the Training Officer and turn the test into the Training Officer.			

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