Skill 16-4 Evaluation Checklist

Objective 22:	Test the operation of an articulating aerial apparatus. [NFPA® 1002, 4.2.2,
	6.1.1]

te:
te

Directions

For this skills evaluation checklist, students will test the operation of an articulating aerial apparatus. This skill requires a minimum of two firefighters: one to inspect and one to assist. Always follow manufacturer's recommendations and local standard operating procedures (SOPs) when performing all procedures.

Resources

- Appropriate PPE
- Fire service aerial apparatus with articulating aerial device
- Manufacturer's operator's manual
- Safety harness and tether
- Service records for apparatus being inspected/tested
- Appropriate documentation forms
- Writing utensil

Criteria & Evaluation Comments

Criteria (determined by the	he AHJ)		
After the candidate has c	ompleted the skill .	sheet, write comments below.	
Evaluator/Candidate Con	nments		
Pass	Fail		
Evaluator Signature	Date	Student Signature	Date

Skills Evaluation Checklist

Objective 22: Test the operation of an articulating aerial apparatus. [NFPA® 1002, 4.2.2, 6.1.1]

Note: Ensure the apparatus is properly prepared and all personnel are clear before performing this skill.

	Task Steps	Yes	No
1.	Park the apparatus in a suitable location for operating the aerial device. a. Set the parking brake. b. Chock the apparatus wheels.		
2.	Transfer power from the drive train to the aerial device hydraulic system.a. Ensure that the transfer actually occurs when the controls are operated.b. Check to make sure the transfer indicator light illuminates after the shift is made.		
3.	 Inspect the stabilizers. See Skill Sheet 18-1 for the exact procedures for stabilizing the apparatus. a. Deploy the apparatus stabilizers according to the manufacturer's instructions. b. Once deployed onto the ground pads, check the stabilizers for signs of damage or leaking hydraulic fluid. c. If there is a slide out step at any control station, confirm that the step is functional. Note: If the apparatus begins to lean toward one side after the stabilizers have been deployed for a while, this indicates a leak in the system and must be reported and repaired immediately. 		
4.	Check that the stabilizers and ground pads are operating within manufacturer's parameters. Note: If the apparatus is equipped with an indicator light, make sure that it illuminates when the apparatus is safely stabilized to allow the aerial device to be lifted from the bed.		
5.	Move the hydraulic system selector valve control to the aerial device position.		
	CAUTION: It is not advisable for inexperienced operators to perform two functions at the same time. Functions should be performed in sequence of 1. Elevate, 2. Rotate, and 3. Extend.		
6.	Elevate the aerial device to full elevation. The aerial device should respond immediately and positively when the control levers (or joystick) is operated.		
7.	Inspect the lower and upper booms.		

	a. Pay special attention to the 'knuckle/elbow' of each section due to extreme stress involved in those areas.	
	b. Check the automatic leveling system in the platform or basket. As the basket is being raised or lowered, ensure the system is operating correctly.	
	c. If the articulating device has a platform, make sure that the platform anti- bounce device (if equipped) operates as designed and intended.	
8.	Rotate the aerial device.	
	a. Make sure that all turntable rotational equipment is in proper working condition. The aerial device should move smoothly in a complete circle.	
	b. Listen for unusual sounds and watch for fluid leaks while the rotation is in process.	
9.	Extend the aerial device to its maximum extension.	
	 Look for signs of problems such as chattering or jerky motions of the aerial device or its workings. 	
	b. Check for unusual noises and squeaks and binding of components.	
	 Once the device is fully extended, inspect the waterway system, rungs, and extension system for signs of damage, defect, or leakage. 	
	d. Check to be certain that the rung alignment indicators (if so equipped) are working properly.	
10.	Check manual locking devices (if so equipped).	
11.	Test operation of auxiliary equipment.	
	a. Test remote control nozzle (if so equipped).	
	b. Test video camera (if so equipped).	
	c. Test floodlights (if so equipped).	
	d. Test other auxiliary equipment.	
12.	Test the emergency power unit (EPU). Ensure the pump function physically creates motion of a hydraulic component per manufacturer's recommendations.	
	Note: The main hydraulic system should be disengaged when this operation is performed and a control valve must be open before turning on the valve.	
13.	Stow the aerial device and stabilizers and ready the apparatus for road travel. Ensure that all equipment stows properly and all indicator devices go out when the appropriate systems are de-energized.	
14.	Document the inspection and any maintenance actions and report any deficiencies per local policy.	