

# Fire Engineering®

TRAINING THE FIRE SERVICE FOR 129 YEARS

## Company Training Drill

NFPA Objectives (JPR's)	Job Levels	Critical Safety Points
<ul style="list-style-type: none"> <li>NFPA 1410 (2005): A7.1.1(e)</li> </ul>	<ul style="list-style-type: none"> <li>Firefighter</li> <li>Apparatus Operator/Officer</li> </ul>	<ul style="list-style-type: none"> <li>Lead-out safety</li> <li>Hydrant flushing</li> <li>Aerial master streams</li> </ul>

### NFPA 1410 Evolution

Total Minimum Flow  
500 GPM



### Evolution 10 Aerial Master Stream Attack with Single Engine Forward Lead-out

**Objective** To place an elevated master stream device flowing 500 GPM into service using units and staffing of the average number of personnel that ordinarily respond. Water supply shall be established with min. 300' of supply hose via a forward lead-out from hydrant to position near aerial ladder. Engine will supply aerial.

**Evolution Description:**

A forward lead out operations using one aerial device with elevated master stream device, one engine, and supply line(s) capable of delivering +500 gpm. Deploy 300' of supply lines from water supply (hydrant) to aerial ladder position. Engine is supplied by hydrant source. Crew shall place aerial mounted master stream device into service flowing 500 GPM from appropriate nozzle capable of flow amount. A 100' supply line(s) capable of flowing 500 gpm will be supplied from the engine to the aerial. Company may utilize tank water to begin flow but shall not have a stoppage in flow in excess of 10 seconds during evolution. Engine company will wait 30 seconds from time aerial ladder stops at fire scene before responding to simulate difference in response time.

**Evaluation Criteria:**

- Supply line shall be completely deployed from hosebeds.
- Aerial ladder shall be positioned with 90 degree rotation and 75% extension of ladder above 45 degrees
- All nozzles shall be flowing minimal acceptable pressures. Master Streams 80 psi
- Supply line to aerial from engine will be charged to pressures required to supply needed gpm's
- Time begins at signal from training officer until water is flowing at required pressure from master stream and supply line has been established.

**Recommended Maximum time: 5 minutes**

**Reference:** -NFPA 1410, 2005 Edition; Training for Initial Emergency Scene Operations  
-Department SOG's

Drill Assigned to:	Local Drill Applications	Date of Drill:
SOG #:	Reading Assignment:	Practical Assignment: