

LANCASTER FIRE DEPARTMENT

TRAINING OBJECTIVES



TRAINING: VERTICAL VENTILATION

LESSON: Using an acquired 40' X 20' truss roof structure, firefighters will practice and prove efficient at particular facets of vertical ventilation using power equipment.

EQUIPMENT:

- Ground ladders
- Roof ladders
- Smoke machine w/ extra product
- Vent saw
- Back-up vent saw
- Fuels
- Irons (axe, haligan, 6' hook) for roof ops
- K12
- SCBA
- Portable radios

OBJECTIVES:

VERTICAL VENTILATION (*figure 1*)- Team gains access to the roof and takes the appropriate steps towards achieving vertical ventilation.

- Assigned crew will be dispatched with orders to ventilate the roof at a certain point on the building
- Crew will be pointed towards equipment consisting of a ground ladder; roof ladder; vent saw, haligan; flat head axe; and 6' hook
- After assembling equipment and determining the best point of access on the roof, the equipment should be moved and the ground ladder set into position and secured using the appropriate technique.
- Saw should be started then secured
- Once roof has been accessed, roof ladder should be placed upwind of proposed vent hole.
- FF's should be positioned on the roof ladder at the vent hole location.
- Haligan should be position and the point set in the roof below the proposed hole for a foot hold
- Vent hole style and size should be considered (rule of thumb: 4x4' square for residential; 6x6' square for commercial). Discuss trench cuts; kerf cuts; inspection holes; etc...
- Vent hole should be cut according to appropriate procedure (*figure 1*).
- Reasoning for diagonal cut (thermal and mechanical) and use of hook should be discussed

- CEILING REMOVAL WILL BE DISCUSSED BUT NOT COMPLETED

