

The Hand in Hand Engine School Syllabus

The Hand in Hand Engine School will discuss all that is Engine. From the rig to the door, to the fire room and all that falls in between, this class will educate firefighters in the most important art of the trade: Engine Work. This course will be an intense advanced course in engine work that will leave students with an in depth understanding of the “Why” of all engine operations. The course will include hose loads, line staging, flowing and moving, forcible entry, and will culminate with drills using realistic scene situations to simulate an actual fire ground.

This will be a three day course just as it was in 2018. The course will address all things from stretching hand lines, to pump hydraulics.

The Exponential Engine: A framework to maximize the efficiency and effectiveness of first due fire attack operations

Classroom: Fire streams and exponential engine concept presentation. Review of fire behavior, fire streams, hydraulics, nozzles, hose and apparatus. Introduction to the exponential engine purpose, frame work and process.

9:30-11:00 - Equipment and techniques: Hands on, nozzle flow and handling demonstration, comparison and technique practices.

11:00-12:00 - 2 ½” Single-man advance and 2 ½” Corner Work

Lunch

13:00- 13:30 - Hose Deployments and stretches: Comparison of Triple Layer vs Flat vs Minuteman bundles, Denver load

13:30-16:30 - Three Station Rotation for One Hour Each

Station One: 1 3/4” 150 GPM: 3 hands on stations using 1 ¾ handline 150GPM @ 50 Fog – Halls and corners 7/8” Smooth Bore - Doors and corners. Advancing up and flowing from stairs

Station Two: 2 1/2” 300 GPM: 2 hands on stations of 2 ½” with 1 3/16” Smooth Bore Exterior knock down and advance single firefighter to doorway, 2nd FF added for mop-up Interior flow and advance- Nozzle FF and back up FF

Station Three: Master Stream 600 GPM: 2 stations with 1 ½” smooth bore engine master stream Apparatus Spotting and Process for determining PDP, and Arrival and knock down

Tuesday:

Classroom With Initial Line Class (Jonah)
Three Stations 45 Minutes a Piece

9:15-10

1015-11

1115-1200

Mask up Forcible Entry, Line Staging (Sexton)
1.75 Movement Thru Building (Stroud)Smith
Rig to Door and Dry Stretch (Crum)(Ray)(Bryant)

Afternoon - Three Stations 1 Hour Each

Flowing up and down stairs Two Line Drill (Jonah)(Ray)
Knee Walk/Diminished Clearance (Phillip)
Vertical Stretches/Bundles (Crum)

Wednesday

1.25 Hour Stations

2.5 Work (Jonah)(Ray)

Long Lines (Crum)

Portable Monitors/Hydrant Tapping (Yarchuk)

Scenarios (Theatrical Smoke)

Company Based 3-4 per group and arrive just as they would in apparatus
Two Line fire with Victim Upstairs/Downstairs in path of advance