



## On-Duty Biannual Training Proposal

### Houston Fire Department

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# Abstract



- *This presentation gives stakeholders a preview of HFD's need for quality training, ROI, and proposal for delivering the training.*
  - ▣ *What facts express HFD's immediate need for training?*
  - ▣ *What consequences are tolerable?*
  - ▣ *What is HFD willing to afford?*
  - ▣ *What is the recommended scheduling model for training?*
  - ▣ *Is training worth placing units out of service for training?*



# Expressions of Need



- 73 Line of Duty Deaths (1838 through 2017)
  - 34 deaths from vehicle accidents
  - 2 during training
  - 14 cardiac deaths
  - 23 incident-driven deaths, with a dozen occurring between 2000 and 2013
    - 13 of the last 17 line of duty deaths are traumatic and happened while fighting fire.
    - Almost every NIOSH recommendation can be achieved through training.
- Tax Day Flood, Hurricane Harvey, and other natural disasters
- Interagency cooperation
- Response to Active Shooter and Threats of Violence
- Improved prehospital emergency medical care
- Department of Justice and EEOC action
- Cancer Awareness/Preventative Measures/PPE Selection and Care



# Return on Investment



- Common knowledge in academia and technical education that face-to-face training is the most effective educational platform.
- Every training initiative in HFD has reflected improved performance.
  - ▣ Multi-company HAZMAT and water supply drill.
    - Reduced incidence of water supply issues on the fire ground.
  - ▣ Modern Fire Dynamics
    - Zero line of duty deaths and increased efficiency on the fire ground.
  - ▣ Fire Ground Survival (FGS)
    - Increased recognition of mayday conditions
    - Immediate resolution of the mayday situation
  - ▣ Traffic Incident Management (TIM)
    - Improved roadway and interagency operations
- Reduced incidence of cancer and liability.



# Attendance Schedule



Day	Apparatus Assigned
1	L4 L59 E7 E11 E49 E66 E43 D68 A4 M17 A56 A48 SQ83 SC15
2	L67 L51 E13 E8 E16 E77 E105 D78 A67 A25 M56 A80 A18
3	L38 L68 E12 E58 E1 E60 E104 D83 M50 A58 A41 M3 SQ18
4	L77 L75 E32 E9 E30 E17 E86 D20 M67 AS30 M44 A51 A20 CAS2
5	T6 L78 E41 E34 E27 E31 E23 D26 M96 A13 A84 M80 A23
6	L16 L69 E63 E44 E39 E19 E36 D46 A38 A31 M63 A69 CAS23 SC37
7	L7 L76 E94 E45 E29 E55 D70 A5 SQ31 A64 AS69 A26 M102
8	L31 T18 E21 E65 E84 E53 D4 D71 M49 A9 M74 A73 M29 M94
9	L19 L29 E2 E37 E102 E74 D5 AS50 A77 M9 M105 SQ73 A36 M72
10	L34 L26 E47 E3 E33 E103 D6 AS16 M6 A12 M65 A82 M36 M59
11	L56 L20 E67 E48 E28 E70 D8 AS17 A11 M58 M101 SQ68 A40 A30
12	L44 L46 E15 E68 E59 E90 D31 AS82 CAS15 SQ19 A21 M75 M40 A93
13	L45 L55 E69 E78 E73 E80 D19 SUP15 A16 A19 SQ33 M78 M24
14	L64 L61 E18 E10 E75 E82 D34 RH17 A15 SQ27 A33 M86 A35 1100
15	L84 L93 E26 E20 E76 E83 D45 SFT30 M62 A27 A37 A90 A46 FM22
16	L101 L71 E24 E40 E42 E57 D64 A7 A32 A60 M10 SQ46 HM2
17	L102 L96 E52 E35 E56 E50 D102 SQ8 A34 A2 A10 M55 HM1
18	L21 E4 E71 E61 E46 E62 D21 SFT57 A8 SQ34 A28 A68 A55 R42
19	L33 E5 E51 E72 E93 E25 D28 AS36 CV8 A39 M60 A76 A52 M71 R11
20	L28 L90 E6 E38 E96 E64 D59 SFT24 A17 M43 A47 A83 M70 R10 A74



# Biannual Training Schedule



- 15 frontline units out of service (less than 6%).
  - No more than one heavy apparatus out of service per fire district.
  - Even distribution of out-of-service EMS units.
  - The goal of not depleting a fire district of fire or EMS resources is achieved.
  - Consideration given to Fleet's preventative maintenance program.
  - This number represents less than 9% of HFD's response units.
  - The Fire and EMS response matrix is respected.
  - Allows capacity to meet immediate training needs.
  - Multi-company drills may continue (10% out of service for training).
- 130 days of training at 26 weeks.
- 40 students per class.
- Four hours fire instruction; four hours EMS instruction.
- Additional training required by administration or Human Resources.



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- National Institute for Occupational Safety and Health
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