# Results of TWGFEX Scene Survey - 02/12/2000

| Responses to Question 1 - Age: | | | | | |
|---|---|---|---|---|---|
| **Response (yrs)** | **N** | **Minimum** | **Maximum** | **Mean** | **Std. Deviation** |
| **Age** | 419 | 24 | 75 | 44.2578 | 8.9857 |
| **Valid N (listwise)** | 419 | | | | |

| Responses to Question 2 - Gender: | | | | | |
|---|---|---|---|---|---|
| **Response** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **MALE** | 405 | 96.0 | 96.7 | 96.7 |
| | **FEMALE** | 14 | 3.3 | 3.3 | 100.0 |
| | **Total** | 419 | 99.3 | 100.0 | |
| | **Missing** | 3 | .7 | | |
| **Total** | | 422 | 100.0 | | |

| Responses to Question 3 - State in which you work: | | | | |
|---|---|---|---|---|
| **Response** | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | 3 | .7 | .7 | .7 |
| **ALASKA** | 4 | .9 | .9 | 1.7 |
| **ALABAMA** | 6 | 1.4 | 1.4 | 3.1 |
| **ALBERTA** | 1 | .2 | .2 | 3.3 |
| **ARKANSAS** | 3 | .7 | .7 | 4.0 |
| **ARIZONA** | 6 | 1.4 | 1.4 | 5.5 |
| **CALIFORNIA** | 28 | 6.6 | 6.6 | 12.1 |
| **COLORADO** | 7 | 1.7 | 1.7 | 13.7 |
| **CONNECTICUT** | 3 | .7 | .7 | 14.5 |
| **DISTRICT OF COLUMBIA** | 8 | 1.9 | 1.9 | 16.4 |
| **DELAWARE** | 1 | .2 | .2 | 16.6 |
| **FLORIDA** | 23 | 5.5 | 5.5 | 22.0 |
| **GEORGIA** | 7 | 1.7 | 1.7 | 23.7 |

| | | | | | |
|---|---|---|---|---|---|
| | **HAWAII** | 3 | .7 | .7 | 24.4 |
| | **IOWA** | 1 | .2 | .2 | 24.6 |
| | **IDAHO** | 3 | .7 | .7 | 25.4 |
| | **ILLINOIS** | 16 | 3.8 | 3.8 | 29.1 |
| | **INDIANA** | 12 | 2.8 | 2.8 | 32.0 |
| | **KANSAS** | 2 | .5 | .5 | 32.5 |
| | **KENTUCKY** | 8 | 1.9 | 1.9 | 34.4 |
| | **LOUISIANA** | 6 | 1.4 | 1.4 | 35.8 |
| | **MASSACHUSETTS** | 8 | 1.9 | 1.9 | 37.7 |
| | **MARYLAND** | 15 | 3.6 | 3.6 | 41.2 |
| | **MAINE** | 4 | .9 | .9 | 42.2 |
| | **MICHIGAN** | 14 | 3.3 | 3.3 | 45.5 |
| | **MINNESOTA** | 7 | 1.7 | 1.7 | 47.2 |
| | **MISSOURI** | 11 | 2.6 | 2.6 | 49.8 |
| | **MISSISSIPPI** | 6 | 1.4 | 1.4 | 51.2 |
| | **MONTANA** | 2 | .5 | .5 | 51.7 |
| | **NORTH CAROLINA** | 18 | 4.3 | 4.3 | 55.9 |
| | **NORTH DAKOTA** | 3 | .7 | .7 | 56.6 |
| | **NEBRASKA** | 2 | .5 | .5 | 57.1 |
| | **NEW HAMPSHIRE** | 4 | .9 | .9 | 58.1 |
| | **NEW JERSEY** | 13 | 3.1 | 3.1 | 61.1 |
| | **NEW MEXICO** | 3 | .7 | .7 | 61.8 |
| | **NEVADA** | 5 | 1.2 | 1.2 | 63.0 |
| | **NEW YORK** | 16 | 3.8 | 3.8 | 66.8 |
| | **OHIO** | 20 | 4.7 | 4.7 | 71.6 |
| | **OKLAHOMA** | 3 | .7 | .7 | 72.3 |
| | **OREGON** | 10 | 2.4 | 2.4 | 74.6 |
| | **PENNSLYVANIA** | 19 | 4.5 | 4.5 | 79.1 |
| | **RHODE ISLAND** | 1 | .2 | .2 | 79.4 |
| | **SOUTH CAROLINA** | 4 | .9 | .9 | 80.3 |
| | **SOUTH DAKOTA** | 1 | .2 | .2 | 80.6 |

| | | | | |
|---|---|---|---|---|
| **TENNESSEE** | 5 | 1.2 | 1.2 | 81.8 |
| **TEXAS** | 19 | 4.5 | 4.5 | 86.3 |
| **UTAH** | 3 | .7 | .7 | 87.0 |
| **VIRGINIA** | 14 | 3.3 | 3.3 | 90.3 |
| **VERMONT** | 5 | 1.2 | 1.2 | 91.5 |
| **WASHINGTON** | 13 | 3.1 | 3.1 | 94.5 |
| **WISCONSIN** | 11 | 2.6 | 2.6 | 97.2 |
| **WEST VIRGINIA** | 9 | 2.1 | 2.1 | 99.3 |
| **WYOMING** | 3 | .7 | .7 | 100.0 |
| **Total** | 422 | 100.0 | 100.0 | |

**Responses to Question 4 - Are you a supervisor?**

| Response | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 187 | 44.3 | 44.5 | 44.5 |
| **NO** | 233 | 55.2 | 55.5 | 100.0 |
| **Total** | 420 | 99.5 | 100.0 | |
| **Missing** | 2 | .5 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 5 - Do you have arrest powers?**

| Response | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 257 | 60.9 | 61.5 | 61.5 |
| **NO** | 161 | 38.2 | 38.5 | 100.0 |
| **Total** | 418 | 99.1 | 100.0 | |
| **Missing** | 4 | .9 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 6 - Current Position:**

| Response | N |
|---|---|
| **FIRE INVESTIGATOR LAW ENFORCEMENT** | 156 |
| **FIRE INVESTIGATOR FIRE DEPARTMENT** | 132 |
| **FIRE PREVENTION** | 78 |

| | |
|---|---|
| **EXPLOSION INVESTIGATOR** | 165 |
| **BOMB TECHNICIAN** | 86 |
| **K9 ACCELERANT DETECTION** | 14 |
| **K9 EXPLOSION DETECTION** | 10 |
| **FORENSIC LABORATORY** | 14 |
| **FIRE MARSHAL** | 72 |
| **MILITARY** | 11 |
| **ENGINEER** | 12 |
| **INSURANCE INVESTIGATOR/ADJUSTER** | 39 |
| **PROSECUTOR'S INVESTIGATOR** | 6 |
| **PRIVATE SECTOR** | 43 |
| **OTHER(a)** | 74 |

a Other Positions Listed (N)
FIRE INVESTIGATOR (4)
TRAINER/EDUCATOR (4)
CRIMINAL INVESTIGATIONS (4)
FIRE CHIEF (4)
FEDERAL (3)
DETECTIVE (3)
ATF (3)
POLICE DETECTIVE (3)
FIREFIGHTER (2)
CFI (2)
RETIRED (2)
SUPPRESSION (2)
NIOSH-FIRE FIGHTER FATALITY INVEST/PREV. TEAM (1)
D/SG LATENT PRINT UNIT (1)
COMMANDER-TAC OPS (1)
DEPUTY SHERIFF (1)
EMERGENCY PREP COORD (1)
RETIREDFMARSHAL, NOW PI FIRM (1)
FIRE-MEDIC (1)
SHERIFFS OFFICE (1)
FIRE OFFICER (1)
PIO (1)
US MARSHAL ASGND TO ATF NAT RESP TM (1)
WEAPONS, SECURITY PENETRATIONS (1)
FIRE PROTECTION ENGINEER (1)
FIREFIGHTER/PARAMEDIC (1)
CODES, PLANS EXAMINER (1)
ARSON INVESTIGATOR (1)
SPECIAL AGENT (1)
ATF FORENSIC ACCOUNTANT (1)
DEPUTY DIRECTOR-WV DIV. OF PROTECT. (1)
CAUSE & ORIGIN (1)
FIRE CAPTAIN (1)

CONSULTANT ON FIRES/EXPL (1)
SENIOR FORENSIC AUDITOR (1)
ON CALL PD FIRE FIGHTER (1)
INSPECTOR (1)
PATROL OFFICER (1)
LOCALLENFORC/BOMBSQUAD(NON-TECH) (1)
POLICE OFFICER (1)
SHIFT CAPTAIN (1)
INTELLIFENCE RESEARCH SPECIALIST (1)
RETIREDATF/FIRE INVESTIGATOR (1)
ADMIN, ASST CHIEF2 (1)
INSTRUCTOR CG MARINE INSPECT/INVEST (1)
EXPLOSIVES CONSULTANT/TRAINING (1)
EMERGENCY PLANNER (1)
WATCH COMMANDER (1)
FIRE PHOTOGRAPHER (1)
LAW ENFORCEMENT (1)

**Responses to Question 7 - Describe your position (Volunteer or Paid):**

| Response | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **VOLUNTEER** | 2 | .5 | .5 | .5 |
| **PAID** | 415 | 98.3 | 99.5 | 100.0 |
| **Total** | 417 | 98.8 | 100.0 | |
| **Missing** | 5 | 1.2 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 8 - Do you work as a fire/explosion investigator full time or part time?**

| Response | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **FULL TIME** | 268 | 63.5 | 66.0 | 66.0 |
| **PART TIME** | 138 | 32.7 | 34.0 | 100.0 |
| **Total** | 406 | 96.2 | 100.0 | |
| **Missing** | 16 | 3.8 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 9 - Agency type that you currently work for:**

| Response | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **PRIVATE** | 72 | 17.1 | 17.1 | 17.1 |
| **LOCAL** | 166 | 39.3 | 39.5 | 56.7 |
| **COUNTY** | 70 | 16.6 | 16.7 | 73.3 |

| | | | | | |
|---|---|---|---|---|---|
| | **STATE** | 64 | 15.2 | 15.2 | 88.6 |
| | **FEDERAL** | 48 | 11.4 | 11.4 | 100.0 |
| | **Total** | 420 | 99.5 | 100.0 | |
| | **Missing** | 2 | .5 | | |
| **Total** | | 422 | 100.0 | | |

| **Responses to Question 10 - Years of experience in your field:** | | | | | |
|---|---|---|---|---|---|
| **Response (years)** | **N** | **Minimum** | **Maximum** | **Mean** | **Std. Deviation** |
| **EXPERIENCE IN FIRE** | 353 | .40 | 45.00 | 14.0224 | 9.6342 |
| **EXPERIENCE IN EXPLOSION** | 211 | .00 | 40.00 | 11.6351 | 9.0569 |
| **EXPERIENCE AS BOMB TECHNICIAN** | 101 | .00 | 40.00 | 10.3589 | 8.4856 |

| **Responses to Question 11 - How many fire/explosion investigators are in your department?** | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **0** | 2 | .5 | .5 | .5 |
| | **1** | 65 | 15.4 | 16.9 | 17.4 |
| | **2** | 41 | 9.7 | 10.7 | 28.1 |
| | **3** | 43 | 10.2 | 11.2 | 39.3 |
| | **4** | 38 | 9.0 | 9.9 | 49.2 |
| | **5** | 32 | 7.6 | 8.3 | 57.6 |
| | **6** | 20 | 4.7 | 5.2 | 62.8 |
| | **7** | 14 | 3.3 | 3.6 | 66.4 |
| | **8** | 19 | 4.5 | 4.9 | 71.4 |
| | **9** | 10 | 2.4 | 2.6 | 74.0 |
| | **10** | 18 | 4.3 | 4.7 | 78.6 |
| | **11** | 6 | 1.4 | 1.6 | 80.2 |
| | **12** | 7 | 1.7 | 1.8 | 82.0 |
| | **13** | 1 | .2 | .3 | 82.3 |
| | **14** | 2 | .5 | .5 | 82.8 |
| | **15** | 5 | 1.2 | 1.3 | 84.1 |
| | **16** | 2 | .5 | .5 | 84.6 |
| | **17** | 4 | .9 | 1.0 | 85.7 |

| | | | | | |
|---|---|---|---|---|---|
| | **18** | 1 | .2 | .3 | 85.9 |
| | **20** | 4 | .9 | 1.0 | 87.0 |
| | **21** | 3 | .7 | .8 | 87.8 |
| | **23** | 3 | .7 | .8 | 88.5 |
| | **24** | 1 | .2 | .3 | 88.8 |
| | **25** | 2 | .5 | .5 | 89.3 |
| | **27** | 1 | .2 | .3 | 89.6 |
| | **30** | 4 | .9 | 1.0 | 90.6 |
| | **31** | 1 | .2 | .3 | 90.9 |
| | **32** | 1 | .2 | .3 | 91.1 |
| | **36** | 1 | .2 | .3 | 91.4 |
| | **40** | 1 | .2 | .3 | 91.7 |
| | **46** | 1 | .2 | .3 | 91.9 |
| | **50** | 5 | 1.2 | 1.3 | 93.2 |
| | **54** | 1 | .2 | .3 | 93.5 |
| | **60** | 2 | .5 | .5 | 94.0 |
| | **70** | 1 | .2 | .3 | 94.3 |
| | **75** | 1 | .2 | .3 | 94.5 |
| | **80** | 1 | .2 | .3 | 94.8 |
| | **88** | 1 | .2 | .3 | 95.1 |
| | **90** | 3 | .7 | .8 | 95.8 |
| | **94** | 1 | .2 | .3 | 96.1 |
| | **100** | 5 | 1.2 | 1.3 | 97.4 |
| | **103** | 1 | .2 | .3 | 97.7 |
| | **108** | 1 | .2 | .3 | 97.9 |
| | **130** | 1 | .2 | .3 | 98.2 |
| | **150** | 1 | .2 | .3 | 98.4 |
| | **200** | 2 | .5 | .5 | 99.0 |
| | **250** | 1 | .2 | .3 | 99.2 |
| | **400** | 1 | .2 | .3 | 99.5 |
| | **1200** | 1 | .2 | .3 | 99.7 |

| | | | | | |
|---|---|---|---|---|---|
| | **1800** | 1 | .2 | .3 | 100.0 |
| | **Total** | 384 | 91.0 | 100.0 | |
| **Missing** | **Missing** | 38 | 9.0 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 11a - How many full-time fire/explosion investigators are in your department?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **0** | 38 | 9.0 | 11.3 | 11.3 |
| **1** | 55 | 13.0 | 16.4 | 27.7 |
| **2** | 27 | 6.4 | 8.0 | 35.7 |
| **3** | 44 | 10.4 | 13.1 | 48.8 |
| **4** | 28 | 6.6 | 8.3 | 57.1 |
| **5** | 23 | 5.5 | 6.8 | 64.0 |
| **6** | 13 | 3.1 | 3.9 | 67.9 |
| **7** | 13 | 3.1 | 3.9 | 71.7 |
| **8** | 16 | 3.8 | 4.8 | 76.5 |
| **9** | 5 | 1.2 | 1.5 | 78.0 |
| **10** | 9 | 2.1 | 2.7 | 80.7 |
| **11** | 6 | 1.4 | 1.8 | 82.4 |
| **12** | 5 | 1.2 | 1.5 | 83.9 |
| **13** | 1 | .2 | .3 | 84.2 |
| **14** | 2 | .5 | .6 | 84.8 |
| **15** | 3 | .7 | .9 | 85.7 |
| **16** | 1 | .2 | .3 | 86.0 |
| **17** | 3 | .7 | .9 | 86.9 |
| **18** | 1 | .2 | .3 | 87.2 |
| **20** | 3 | .7 | .9 | 88.1 |
| **21** | 3 | .7 | .9 | 89.0 |
| **23** | 2 | .5 | .6 | 89.6 |
| **25** | 1 | .2 | .3 | 89.9 |
| **27** | 1 | .2 | .3 | 90.2 |

| | | | | | |
|---|---|---|---|---|---|
| | **30** | 5 | 1.2 | 1.5 | 91.7 |
| | **40** | 2 | .5 | .6 | 92.3 |
| | **45** | 1 | .2 | .3 | 92.6 |
| | **46** | 1 | .2 | .3 | 92.9 |
| | **50** | 4 | .9 | 1.2 | 94.0 |
| | **60** | 1 | .2 | .3 | 94.3 |
| | **70** | 1 | .2 | .3 | 94.6 |
| | **73** | 1 | .2 | .3 | 94.9 |
| | **75** | 1 | .2 | .3 | 95.2 |
| | **80** | 1 | .2 | .3 | 95.5 |
| | **90** | 1 | .2 | .3 | 95.8 |
| | **94** | 1 | .2 | .3 | 96.1 |
| | **100** | 4 | .9 | 1.2 | 97.3 |
| | **103** | 1 | .2 | .3 | 97.6 |
| | **108** | 1 | .2 | .3 | 97.9 |
| | **150** | 1 | .2 | .3 | 98.2 |
| | **200** | 2 | .5 | .6 | 98.8 |
| | **250** | 1 | .2 | .3 | 99.1 |
| | **400** | 1 | .2 | .3 | 99.4 |
| | **500** | 1 | .2 | .3 | 99.7 |
| | **1800** | 1 | .2 | .3 | 100.0 |
| | **Total** | 336 | 79.6 | 100.0 | |
| | **Missing** | 86 | 20.4 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 11b - How many part-time fire/explosion investigators are in your department?**

| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **0** | 84 | 19.9 | 36.1 | 36.1 |
| | **1** | 40 | 9.5 | 17.2 | 53.2 |
| | **2** | 26 | 6.2 | 11.2 | 64.4 |
| | **3** | 17 | 4.0 | 7.3 | 71.7 |

| | | | | | |
|---|---|---|---|---|---|
| | **4** | 16 | 3.8 | 6.9 | 78.5 |
| | **5** | 10 | 2.4 | 4.3 | 82.8 |
| | **6** | 10 | 2.4 | 4.3 | 87.1 |
| | **7** | 1 | .2 | .4 | 87.6 |
| | **8** | 3 | .7 | 1.3 | 88.8 |
| | **9** | 1 | .2 | .4 | 89.3 |
| | **10** | 5 | 1.2 | 2.1 | 91.4 |
| | **12** | 2 | .5 | .9 | 92.3 |
| | **13** | 1 | .2 | .4 | 92.7 |
| | **17** | 1 | .2 | .4 | 93.1 |
| | **20** | 4 | .9 | 1.7 | 94.8 |
| | **30** | 1 | .2 | .4 | 95.3 |
| | **32** | 1 | .2 | .4 | 95.7 |
| | **33** | 1 | .2 | .4 | 96.1 |
| | **35** | 1 | .2 | .4 | 96.6 |
| | **48** | 1 | .2 | .4 | 97.0 |
| | **50** | 4 | .9 | 1.7 | 98.7 |
| | **54** | 1 | .2 | .4 | 99.1 |
| | **100** | 1 | .2 | .4 | 99.6 |
| | **126** | 1 | .2 | .4 | 100.0 |
| | **Total** | 233 | 55.2 | 100.0 | |
| | **Missing** | 189 | 44.8 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 12 - What is the average annual percentage of your workload that is devoted to each of the following (to total 100%)?**

| Responses (%) | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **OTHER THINGS(a)** | 162 | 0 | 100 | 54.16 | 33.47 |
| **FIRE SCENE INVESTIGATION** | 330 | 0 | 100 | 44.36 | 32.22 |
| **POST INCIDENT INVESTIGATION** | 260 | 0 | 100 | 28.15 | 24.29 |
| **FORENSIC ANALYSIS** | 63 | 0 | 100 | 26.14 | 34.22 |

| | | | | | |
|---|---|---|---|---|---|
| **EXPLOSIVES (RENDER SAFE, BOMB TECH.)** | 99 | 0 | 100 | 22.52 | 23.86 |
| **EXPLOSIVES (HANDLE, TRANSPORT, DESTROY KNOWN OR SUSPECT EXPLOSIVES)** | 111 | 0 | 100 | 15.94 | 19.44 |
| **POST BLAST INVESTIGATION** | 178 | 0 | 100 | 13.39 | 18.78 |
| a Footnote: See list of other types of work below. | | | | | |

| **Responses to Question 12a - Describe other types of work:** | |
|---|---|
| **Responses** | **Frequency** |
| **INSPECTIONS** | 5 |
| **TRAINING** | 5 |
| **ADMINISTRATIVE** | 4 |
| **INSPECTION** | 3 |
| **FIRE PREVENTION** | 3 |
| **CODE ENFORCEMENT** | 3 |
| **SUPERVISION** | 3 |
| **SUPPRESSION** | 2 |
| **PREVENTION** | 2 |
| **TRAINING/POST BLAST INVES** | 1 |
| **COURT TESTIMON** | 1 |
| **INV COMMERCIAL CRIMES** | 1 |
| **FIREFIGHTER/PUBLIC ED/EMR** | 1 |
| **PREVENTION/SUPPRESSION/EMS** | 1 |
| **SUPERVISOR OF INV UNIT** | 1 |
| **PAPER WORK** | 1 |
| **POLICE OFFICER - PATROL** | 1 |
| **PLANS REVIEW & INSPECTION** | 1 |
| **COMPLET FIRE INVESTIG** | 1 |
| **PUBLIC FIRE ED** | 1 |
| **GENERAL ASSIGNMENT INVEST** | 1 |
| **FIRE INPECTIONS** | 1 |
| **MANAGEMENT** | 1 |

| | |
|---|---|
| **ADMIN, TRAINING, INSTRUCT** | 1 |
| **OTHER DETECTIVE WORK** | 1 |
| **ENGINEER CONSULTING** | 1 |
| **CODE ENFORCEMENT DUTIES** | 1 |
| **CRIMINAL INVESTIGATIONS** | 1 |
| **FIELD OPERATIONS** | 1 |
| **FIREPREVENTION,DIST.ADMIN** | 1 |
| **K-9** | 1 |
| **NON-FIRE INVESTIGATIONS** | 1 |
| **FIREFIGHTER** | 1 |
| **CRIMINAL INV** | 1 |
| **EXPLOSIVE TRAINING/TEACH** | 1 |
| **PREPARING REPORTS** | 1 |
| **INJURY** | 1 |
| **FIRE INSPECTOR** | 1 |
| **FIRE PREVENTION ACTIVITY** | 1 |
| **OTHER FORENSIC ANALYSIS** | 1 |
| **REPORTS/RESEARCH/INTERVIEWS** | 1 |
| **SUSPICIOUS ITEMS** | 1 |
| **ACCIDENT ASSMNT FOR PD** | 1 |
| **OTHER DETECTIVE DUTIES** | 1 |
| **INSTRUCTOR** | 1 |
| **PRESENTATIONS REVENUEEXAM** | 1 |
| **FILE REVIEW** | 1 |
| **CASE INVESTIGATION** | 1 |
| **OTHER CRIMINAL** | 1 |
| **BOMB THREAT INV** | 1 |
| **SUPERVISORY** | 1 |
| **GENERAL INVESTIGATIONS** | 1 |
| **CRIMINAL CASES/MANAGEMENT** | 1 |
| **EMERGENCY PLANNING** | 1 |

| | |
|---|---|
| **K-9 DUTIES** | 1 |
| **FIREARMS VIOLATIONS** | 1 |
| **INSURANCE CLAIMS** | 1 |
| **COURT TESTIMONY** | 1 |
| **SECURITY** | 1 |
| **CODE ENFORCEMENT/ PUBLIC EDUCATION** | 1 |
| **ROUTINE PATROL** | 1 |
| **WEAPONS TRNG / SWAT TEAM** | 1 |
| **GENERAL NON FIRE RELATED** | 1 |
| **LIASON** | 1 |
| **MAJOR CRIME SCENES** | 1 |
| **FIRE SUPP/EMS SERVICES** | 1 |
| **CODE ENFORCEMENT/FIRE PREVENTION** | 1 |
| **INSPECTION/PREVENTION/EDUCATION** | 1 |
| **FIREFIGHTER, EDUCATION** | 1 |
| **OTHER LAW ENFORCEMENT** | 1 |
| **ANALYSIS/TRENDS & PATTERN** | 1 |
| **LAW ENFORCEMENT PATROL** | 1 |
| **CRIME INVESTIGATION** | 1 |
| **FIRE-MEDIC** | 1 |
| **OTHER CRIMINAL INCIDENTS** | 1 |
| **PREVENTION, EDUCATION & MED SERVICES** | 1 |
| **ALL CRIMINAL INVESTIGATIONS** | 1 |
| **LIFE SAFTY CODE ENFORCEM** | 1 |
| **CODE ENFORCEME** | 1 |
| **FIELD INSPECTIONS** | 1 |
| **ADMINISTRATIVE/INSTRUCTOR** | 1 |
| **CONSULTING** | 1 |
| **ADMIN/INSTRUCTIVE** | 1 |
| **OTHER POLICE DUTIES** | 1 |
| **FIRE CAPTAIN** | 1 |

| | |
|---|---|
| **REPORT WRITING** | 1 |
| **CODE ENFORCEMENT/EDUCATIO** | 1 |
| **PATROL/P.R.** | 1 |
| **CRIMINAL INTELLIGENCE** | 1 |
| **FIRE PREV. PUB. ED.; PIO** | 1 |
| **FOLLOW UPS** | 1 |
| **AUTO/HOMEOWNERS** | 1 |
| **FIRE INSPECTION** | 1 |
| **POLICE OFFICER** | 1 |
| **FIRE REPORTS/PAPERWORK/DOCUMENTATION** | 1 |
| **CRIMES AGAINST PERSONS** | 1 |
| **ADMINISTRATION** | 1 |
| **FIREARMS TRAFFICKING VIOLENT OFFENDERS** | 1 |
| **COORDINATE UNIT TRAINING** | 1 |
| **NON-FIRE FORENSIC CASES** | 1 |
| **ESTIMATING** | 1 |
| **P.I.O./PREVENTION** | 1 |
| **JUVENILE** | 1 |
| **PROPERTY/VIOLENT CRIMES** | 1 |
| **FIREARMS INVESTIGATIONS** | 1 |
| **PREPLANNING** | 1 |
| **DOCUMENTATION** | 1 |
| **OTHER INVESTIGATION** | 1 |
| **SERGEANT IN CRIMINAL INV** | 1 |
| **PROGRAMMANAGEM** | 1 |
| **CRIMINAL INVESTIGATION** | 1 |
| **TECH SERVICES** | 1 |
| **BURGLARY INVESTIGATION** | 1 |
| **VICE/NARCOTICS** | 1 |
| **PATROL/SWAT** | 1 |
| **FIRE FIGHTING DUTIES** | 1 |

| | |
|---|---|
| **MGMT OF FIRE & EXPL. PROG** | 1 |
| **HOMICIDE DET./ARSON INV.** | 1 |
| **INSPECTION PLAN REVIEW** | 1 |
| **BLDG. INSPECTIONS, PUB. EDUCATION** | 1 |
| **PLAN REVIEW & INSPECTIONS** | 1 |
| **CRIMINAL/CIVIL INVESTIGAT** | 1 |
| **POLICEDETECTIV** | 1 |
| **DRUG INVESTIGATIONS** | 1 |
| **REPORTS/RECORDS/DATA** | 1 |
| **TRYING TO SET UP ARSON INVEST UNIT NOW** | 1 |
| **OTHER DUTIES** | 1 |
| **SUPERVISOR** | 1 |
| **OTHER CRIMES/ADMINISTRATION** | 1 |
| **SUPPRESSION/PREVENTION** | 1 |
| **INSPECTION/SUPPRESSION** | 1 |
| **HOMICIDE-DEATH INVESTIGAT** | 1 |
| **FIRE SUPPRESSION** | 1 |
| **TECHNICAL RESEARCH** | 1 |
| **PRIMARY VIOLENT CRIME DET** | 1 |
| **PUBLIC EDUCATION** | 1 |
| **EXPLOSIVES TRAINING** | 1 |
| **CODES, PLANS EXAMINER** | 1 |
| **INSURANCE INVESTIGATION** | 1 |
| **PLATOON CAPTAIN/WATCH COM** | 1 |
| **EVIDENCE COLLECTION** | 1 |
| **Total** | 422 |

| **Responses to Question 12b - Additional types of other work:** | |
|---|---|
| **Responses** | **Frequency** |
| **FIRE PREVENTION** | 2 |
| **DEPT INVESTIGAT** | 1 |

| | | |
|---|---|---|
| | **PREVENTION** | 1 |
| | **ADMINISTRATION** | 1 |
| | **BOMB THREATS** | 1 |
| | **FIRE DEPT TRAIN** | 1 |
| | **TEACHING** | 1 |
| | **LITIGATION** | 1 |
| | **GIVING TALKS** | 1 |
| | **REPORTS** | 1 |
| | **OTHER INVEST** | 1 |
| | **THEFT** | 1 |
| | **EMS** | 1 |
| | **PUBLIC ED** | 1 |
| | **TRAINING** | 1 |
| | **INSPECTI** | 1 |
| | **PLANS REVIEW** | 1 |
| | **INTERDICTION** | 1 |

**Responses to Question 13 - How many investigations do you perform, on average, each year?**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **FIRE INVESTIGATIONS** | 345 | 0 | 700 | 56.40 | 77.09 |
| **EXPLOSION INVESTIGATIONS** | 239 | 0 | 125 | 9.32 | 16.30 |

**Responses to Question 14 - How many hours per year do you devote to training?**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **FIRE TRAINING AS A STUDENT** | 330 | 0 | 400 | 66.75 | 54.08 |
| **EXPLOSION TRAINING AS A STUDENT** | 237 | 0 | 500 | 60.30 | 78.24 |
| **FIRE TRAINING AS AN INSTRUCTOR** | 207 | 0 | 1000 | 59.48 | 100.14 |
| **EXPLOSION AS AN INSTRUCTOR** | 158 | 0 | 1000 | 56.82 | 119.36 |

**Responses to Question 15 - Highest education level completed:**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **2 YR DEGREE** | 112 | 26.5 | 26.8 | 26.8 |

| | | | | | |
|---|---|---|---|---|---|
| | **HIGH SCHOOL** | 110 | 26.1 | 26.3 | 53.1 |
| | **BACHELOR OF SCIENCE 4YRS** | 100 | 23.7 | 23.9 | 77.0 |
| | **BACHELOR OF ARTS 4YR** | 52 | 12.3 | 12.4 | 89.5 |
| | **MASTERS OF SCIENCE** | 17 | 4.0 | 4.1 | 93.5 |
| | **MASTERS OF ARTS** | 11 | 2.6 | 2.6 | 96.2 |
| | **GED** | 8 | 1.9 | 1.9 | 98.1 |
| | **OTHER** | 5 | 1.2 | 1.2 | 99.3 |
| | **Ph.D.** | 3 | .7 | .7 | 100.0 |
| | **Total** | 418 | 99.1 | 100.0 | |
| | **Missing** | 4 | .9 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 15a - Field of study for Bachelor and/or Masters degrees.**

| | Responses | Frequency | Valid Percent |
|---|---|---|---|
| | **CRJ** | 32 | 7.6 |
| | **FIRE SCIENCE** | 9 | 2.1 |
| | **MANAGEMENT** | 6 | 1.4 |
| | **BUSINESS** | 5 | 1.2 |
| | **EDUCATION** | 5 | 1.2 |
| | **PUBLIC ADMIN.** | 4 | .9 |
| | **ACCOUNTING** | 4 | .9 |
| | **MECHANICAL ENG.** | 3 | .7 |
| | **LAW ENFORCEMENT** | 3 | .7 |
| | **POL SCI** | 3 | .7 |
| | **POLICE ADMIN.** | 3 | .7 |
| | **HISTORY** | 3 | .7 |
| | **CRIMINAL JUSTICE** | 3 | .7 |
| | **MBA** | 2 | .5 |
| | **JD (LAW)** | 2 | .5 |
| | **ELECTRICAL ENG.** | 2 | .5 |
| | **PUBLIC SAFETY** | 2 | .5 |

| | | |
|---|---|---|
| **SOCIOLOGY** | 2 | .5 |
| **ENGLISH** | 2 | .5 |
| **BIOLOGY** | 2 | .5 |
| **CHEM** | 2 | .5 |
| **FORENSICSCIENCE** | 2 | .5 |
| **EMERGENCY** | 1 | .2 |
| **CJ/BIO/CHEM** | 1 | .2 |
| **MILITARY & GOVT** | 1 | .2 |
| **CRJ/FIRE PROTEC** | 1 | .2 |
| **HIST/EDUCATION** | 1 | .2 |
| **PSYCH/EDUCATION** | 1 | .2 |
| **NSG** | 1 | .2 |
| **FIRE & ARSON IN** | 1 | .2 |
| **ENGINEERING** | 1 | .2 |
| **BIOLOGY/CHEM.** | 1 | .2 |
| **ORGANIZ MANGMT** | 1 | .2 |
| **LLD-LAW** | 1 | .2 |
| **SAFETY ENVIRONMENTAL** | 1 | .2 |
| **MPA** | 1 | .2 |
| **BFA SPEECH COMM** | 1 | .2 |
| **EET** | 1 | .2 |
| **LA** | 1 | .2 |
| **JOURNALISM** | 1 | .2 |
| **LIFE/PSYCHOLOGY** | 1 | .2 |
| **HUMAN RESOURCE** | 1 | .2 |
| **CRJ/CHEM** | 1 | .2 |
| **PSYCHOLOGY/SOC.** | 1 | .2 |
| **CJ; ACCOUNTING** | 1 | .2 |
| **ENGINEER CIVIL** | 1 | .2 |
| **IE, FSM, CS** | 1 | .2 |
| **CRJ/FS** | 1 | .2 |

| | | | |
|---|---|---|---|
| | **CRJ/ART SCIENCE** | 1 | .2 |
| | **BSME** | 1 | .2 |
| | **PHYSICAL SCIENC** | 1 | .2 |
| | **FIRE TECHNICIAN** | 1 | .2 |
| | **FIRE & SAFETY T** | 1 | .2 |
| | **F & S ENGINEER** | 1 | .2 |
| | **CRIMINOLOGY** | 1 | .2 |
| | **ANTHROPOLOGY** | 1 | .2 |
| | **COMPUTER MGMT &** | 1 | .2 |
| | **POLITICAL SCIENCE** | 1 | .2 |
| | **SOCIAL SCIENCE** | 1 | .2 |
| | **ED/HUMAN ORGSCI** | 1 | .2 |
| | **BIO/CHEM** | 1 | .2 |

**Responses to Question 16 - Should your immediate supervisor have experience in the areas of fire or explosion investigation to manage cases in these fields?**

| | **Responses** | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
|---|---|---|---|---|---|
| | **YES** | 354 | 83.9 | 85.1 | 85.1 |
| | **NO** | 62 | 14.7 | 14.9 | 100.0 |
| | **Total** | 416 | 98.6 | 100.0 | |
| | **Missing** | 6 | 1.4 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 17 - What are the minimum number of years of experience in fire or explosion investigation needed to hold a supervisory position?**

| | **Responses** | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
|---|---|---|---|---|---|
| | **2-5 YEARS** | 189 | 44.8 | 45.0 | 45.0 |
| | **6-10 YEARS** | 171 | 40.5 | 40.7 | 85.7 |
| | **MORE THAN 10 YEARS** | 32 | 7.6 | 7.6 | 93.3 |
| | **LESS THAN 2 YEARS** | 15 | 3.6 | 3.6 | 96.9 |
| | **NONE** | 13 | 3.1 | 3.1 | 100.0 |
| | **Total** | 420 | 99.5 | 100.0 | |

| | | | | | |
|---|---|---|---|---|---|
| | **Missing** | 2 | .5 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 18 - Does your immediate supervisor have experience in fire or explosion investigations?**

| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **YES** | 234 | 55.5 | 58.9 | 58.9 |
| | **NO** | 163 | 38.6 | 41.1 | 100.0 |
| | **Total** | 397 | 94.1 | 100.0 | |
| | **Missing** | 25 | 5.9 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 19 - Which professional organizations are you a member of?**

| Responses | N |
|---|---|
| **INTERNATIONAL ASSOCIATION OF ARSON INVESTIGATORS** | 257 |
| **INTERNATIONAL ASSOCIATION OF BOMB TECHNICIANS AND INVESTIGATORS** | 145 |
| **INTERNATIONAL SOCIETY OF EXPLOSIVE ENGINEERS** | 21 |
| **NATIONAL ASSOCIATION OF FIRE INVESTIGATORS** | 53 |
| **NATIONAL FIRE PROTECTION ASSOCIATION** | 118 |
| **STATE CHAPTER OF THE INTERNATIONAL ASSOCIATION OF ARSON INVESTIGATORS** | 229 |
| **WORLD EOD FOUNDATION** | 10 |

**Responses to Question 19h - Other professional organizations you are a member of:**

| | Responses | Frequency |
|---|---|---|
| | **MARYLAND AIA** | 7 |
| | **FOP** | 5 |
| | **CA CONFERENCE OF ARSON INVEST.** | 5 |
| | **ASIS** | 4 |
| | **IASIU** | 4 |
| | **IAI** | 3 |
| | **PFFIA** | 3 |
| | **OAKLAND ASSOC OF ARSON/FIRE INVEST** | 2 |

| | |
|---|---|
| **ISFSI** | 2 |
| **COUNTY ARSON INVEST ASSOC.** | 2 |
| **IACP** | 2 |
| **IAFF** | 2 |
| **W TX FIRE/ARSON INV** | 2 |
| **ASTM** | 2 |
| **NONE** | 2 |
| **BROWN COUNTY ARSON TASK FORCE** | 1 |
| **LOCAL ASSOCIATION** | 1 |
| **SFPE** | 1 |
| **FACAD** | 1 |
| **IAFC** | 1 |
| **NPGA** | 1 |
| **NEW ZEALAND FIRE INVEST ASSOC** | 1 |
| **ATF K-9 UNIT** | 1 |
| **NORTH AMERICAN WORK DOG ASSOC.** | 1 |
| **CFI IAAI** | 1 |
| **SOSCPA** | 1 |
| **IL FIRE CHEIFS ASSOC** | 1 |
| **METRO. AIA** | 1 |
| **SOCIETY OF AUTOMOTIVEE FORENSIC EX** | 1 |
| **NEW ENGLAND BOMB TECH ASSOC** | 1 |
| **CAC** | 1 |
| **CO FIRE TRAINING OFFICERS ASSOC.** | 1 |
| **FIRE MARSHALS ASSOC. OF OKLAHOMA** | 1 |
| **FL COUNCIL ARSON PREVENTION** | 1 |
| **SOCIETY OF FIRE PROTECTION ENGINEER** | 1 |
| **ASLET** | 1 |
| **MASTERBLASTERINT.(RETIREUSAFEODASSO** | 1 |
| **MFIA** | 1 |
| **NAT'L SOCIETY OF PROF INSURANCE INV** | 1 |

| | | |
|---|---|---|
| | **ICBO** | 1 |
| | **CANADIAN ASS. ARSON INVEST.** | 1 |
| | **MAFS** | 1 |
| | **ENGINEERING COUNCIL ENGLAND** | 1 |
| | **LOCAL BOMB TECH'S ASSOC.** | 1 |
| | **FACULTY STUDENTASSOC.NY FIRE ACADEM** | 1 |
| | **CFE** | 1 |
| | **IAATI** | 1 |
| | **CCAI** | 1 |
| | **MARINE INVESTIGATORS** | 1 |
| | **ASFA** | 1 |
| | **NORTH AMERICAN FIRE MARSHAL'S ASSOC** | 1 |
| | **SEVERAL LOCAL ARSON TASK FORCES** | 1 |
| | **ID PEACE OFFICER ASSN** | 1 |
| | **OAO** | 1 |
| | **NFA ALUMNI** | 1 |
| | **LOCAL IABTI** | 1 |
| | **IFCI** | 1 |
| | **WI ASSOC. OF FIRE INSPECTORS** | 1 |
| | **PAAI** | 1 |

**Responses to Question 19h - Additional professional organizations you are a member of:**

| | Responses | Frequency |
|---|---|---|
| | **IACP** | 2 |
| | **UDT** | 1 |
| | **SFDE** | 1 |
| | **IFSS** | 1 |
| | **FACAP** | 1 |
| | **ISFSI** | 1 |
| | **CENTRAL VALLEY ARSON INV.** | 1 |
| | **LOCAL ARSON INVEST.** | 1 |

| | | |
|---|---|---|
| | **EPI** | 1 |
| | **NFPA** | 1 |
| | **CUSA** | 1 |
| | **NATIONAL FIRE ACADEMY** | 1 |
| | **ASM** | 1 |
| | **AFTE** | 1 |
| | **CII** | 1 |
| | **ACFE** | 1 |
| | **PSSI** | 1 |
| | **CPA** | 1 |

| **Responses to Question 19h - Additional professional organizations you are a member of:** | | |
|---|---|---|
| **Responses** | | **Frequency** |
| | **AICPA** | 2 |
| | **FLEDA** | 1 |

| **Responses to Question 19h - Additional professional organizations you are a member of:** | | |
|---|---|---|
| **Responses** | | **Frequency** |
| | **FACAP** | 1 |
| | **ICCA** | 1 |

| **Responses to Question 20 - Are you certified in your field?** | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **YES** | 282 | 66.8 | 67.8 | 67.8 |
| | **NO** | 134 | 31.8 | 32.2 | 100.0 |
| | **Total** | 416 | 98.6 | 100.0 | |
| | **Missing** | 6 | 1.4 | | |
| **Total** | | 422 | 100.0 | | |

| **Responses to Question 20a: With whom are you certified?** | | |
|---|---|---|
| **Responses** | | **Frequency** |
| | **IAAI** | 65 |
| | **FBI** | 42 |

| | |
|---|---|
| **ATF** | 16 |
| **NFA** | 11 |
| **REDSTONE/HDS** | 10 |
| **NAFI** | 10 |
| **CA STATE** | 8 |
| **NY STATE** | 8 |
| **TX STATE** | 6 |
| **IL STATE** | 6 |
| **MO STATE** | 6 |
| **NFPA** | 6 |
| **VA STATE** | 4 |
| **DOJ** | 3 |
| **NC STATE** | 3 |
| **PA STATE** | 3 |
| **MD STATE** | 3 |
| **MI STATE** | 3 |
| **NM STATE** | 2 |
| **CFI** | 2 |
| **MS STATE** | 2 |
| **FL STATE** | 2 |
| **COLORADO PA** | 1 |
| **NICID** | 1 |
| **MS FIRE ACADEMY** | 1 |
| **REDSTONE** | 1 |
| **IAAT** | 1 |
| **SAFE** | 1 |
| **POSTAL** | 1 |
| **GLENCO** | 1 |
| **FRAUD CLAIM LAW** | 1 |
| **OR STATE** | 1 |
| **SFM** | 1 |

| | |
|---|---|
| **FRAUD EXAMINER** | 1 |
| **FDLE** | 1 |
| **KS STATE-POLICE** | 1 |
| **DOD** | 1 |
| **AL STATE** | 1 |
| **WA STATE** | 1 |
| **CG** | 1 |
| **PROV. OF ALBERTA CANADA** | 1 |
| **KS STATE** | 1 |
| **OSP** | 1 |
| **CO STATE** | 1 |
| **ICBO** | 1 |
| **BDC** | 1 |
| **NH STATE** | 1 |
| **WI STATE** | 1 |
| **IN LAW ENFORCE. TRAINING** | 1 |
| **WY IAAI** | 1 |
| **IN STATE** | 1 |
| **AICPA** | 1 |
| **NBSCAB** | 1 |
| **COUNTY CARRIED** | 1 |
| **FAA** | 1 |
| **UNIVERSITY MD** | 1 |
| **STATE FIRE COLLEGE** | 1 |
| **OH STATE** | 1 |
| **ARMY EOD** | 1 |
| **NYPD** | 1 |
| **IASIU** | 1 |
| **FL STATE FIRE COLLEGE** | 1 |
| **NJ STATE** | 1 |
| **NYFD** | 1 |

| | |
|---|---|
| **NAT PRO QUAL SY** | 1 |
| **ARMY CID** | 1 |
| **P.E.** | 1 |
| **TCFP** | 1 |
| **WV STATE AS LAW ENFORCE.** | 1 |
| **AK IAAI** | 1 |
| **PEMA** | 1 |
| **WV STATE** | 1 |
| **STATE** | 1 |
| **ABC** | 1 |
| **LA STATE** | 1 |
| **NE LAW ENFORCEMENT** | 1 |
| **Total** | 422 |

| **Responses to Question 20a - Additional Certifications:** | |
|---|---|
| **Responses** | **Frequency** |
| **FBI** | 12 |
| **REDSTONE/HDS** | 9 |
| **NAFI** | 8 |
| **CFI** | 6 |
| **IAAI** | 5 |
| **BDC** | 3 |
| **ATF** | 3 |
| **NFPA** | 2 |
| **PA STATE** | 2 |
| **MO STATE** | 2 |
| **CA STATE** | 2 |
| **NFPA 1033** | 2 |
| **NATIONAL** | 2 |
| **IABTI** | 2 |
| **NBFSPQ** | 2 |

| | | |
|---|---|---|
| | **ACFE** | 2 |
| | **NFA** | 1 |
| | **CES** | 1 |
| | **MA STATE** | 1 |
| | **NJ STATE** | 1 |
| | **NY STATE** | 1 |
| | **PUBLICACCOUN** | 1 |
| | **NCDJ** | 1 |
| | **OMAHA POLICE** | 1 |
| | **FSFM** | 1 |
| | **HOS** | 1 |
| | **POST** | 1 |
| | **TX STATE** | 1 |
| | **IN STATE** | 1 |
| | **SFPS** | 1 |
| | **NFFI** | 1 |
| | **HDS** | 1 |
| | **CA CONFERENC** | 1 |
| | **MD STATE** | 1 |
| | **CT STATE** | 1 |
| | **US ARMY** | 1 |
| | **WY STATE** | 1 |
| | **USAFEOD** | 1 |
| | **DCJS** | 1 |
| | **ARMY** | 1 |
| | **FEDERAL** | 1 |
| | **LA STATE** | 1 |

| **Responses to Question 20a - Additional Certifications:** | | |
|---|---|---|
| **Responses** | | **Frequency** |
| | **INTERNATIONAL** | 1 |

| | | |
|---|---|---|
| | **ATF** | 1 |
| | **USMC/NAVORSTA EOD** | 1 |
| | **DCJS** | 1 |
| | **MILITARY EOD GRAD** | 1 |

**Statistics**

| | | FOLLOW NFPA 921 GUIDELINES FOR FIRE | FOLLOW DEPARTMENT GUIDELINES FOR FIRE | FOLLOW "OTHER" PUBLISHED GUIDELINES | FOLLOW ATF PUBLISHED GUIDELINES FOR EXPLOSION INVESTIGATION | FOLLOW FBI GUIDELINES FOR EXPLOSION INVESTIGATIONS | FOLLOW "OTHER" EXPLOSION GUIDELINES |
|---|---|---|---|---|---|---|---|
| **N** | **Valid** | 313 | 250 | 422 | 222 | 119 | 422 |
| | **Missing** | 109 | 172 | 0 | 200 | 303 | 0 |

**Responses to Question 21a - Do you apply NFPA 921 guidelines to your fire investigations?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 312 | 73.9 | 99.7 | 99.7 |
| **NO** | 1 | .2 | .3 | 100.0 |
| **Total** | 313 | 74.2 | 100.0 | |
| **Missing** | 109 | 25.8 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 21b - Do you apply Department guidelines to your fire investigations?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 250 | 59.2 | 100.0 | 100.0 |
| **Missing** | 172 | 40.8 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 21c - What other published guidelines do you apply to your fire investigations?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| | 353 | 83.6 | 83.6 | 83.6 |
| **KIRK'S** | 15 | 3.6 | 3.6 | 87.2 |
| **STATE** | 6 | 1.4 | 1.4 | 88.6 |

| | | | | | |
|---|---|---|---|---|---|
| | **FBI** | 3 | .7 | .7 | 89.3 |
| | **VARIOUS TEXT BOOKS** | 3 | .7 | .7 | 90.0 |
| | **EXPERIENCE** | 2 | .5 | .5 | 90.5 |
| | **NFA** | 2 | .5 | .5 | 91.0 |
| | **KIRKS** | 2 | .5 | .5 | 91.5 |
| | **ATF** | 2 | .5 | .5 | 91.9 |
| | **IAAI/MS FIREINVASSN** | 1 | .2 | .2 | 92.2 |
| | **SBCI** | 1 | .2 | .2 | 92.4 |
| | **MULTI SOURCES** | 1 | .2 | .2 | 92.7 |
| | **NV REVISED STATUTES** | 1 | .2 | .2 | 92.9 |
| | **TECH RESEARCH PUBS** | 1 | .2 | .2 | 93.1 |
| | **KIRK'S, NFPA** | 1 | .2 | .2 | 93.4 |
| | **REFERENCE LIBRARY** | 1 | .2 | .2 | 93.6 |
| | **CA DISTRICTATTORNEY** | 1 | .2 | .2 | 93.8 |
| | **KIRK'S/NFPACA. DA** | 1 | .2 | .2 | 94.1 |
| | **OSHA & OTHER NFPA** | 1 | .2 | .2 | 94.3 |
| | **FIRE FINDINGS** | 1 | .2 | .2 | 94.5 |
| | **ASTM GUIDELINES** | 1 | .2 | .2 | 94.8 |
| | **NFPA 906M** | 1 | .2 | .2 | 95.0 |
| | **IAAI** | 1 | .2 | .2 | 95.3 |
| | **FBI BOMB RESPONSE** | 1 | .2 | .2 | 95.5 |
| | **USACIDC** | 1 | .2 | .2 | 95.7 |
| | **FBI, ATF** | 1 | .2 | .2 | 96.0 |
| | **NATIONAL/FEDERAL** | 1 | .2 | .2 | 96.2 |
| | **KENNEDY'S FIRE INVE** | 1 | .2 | .2 | 96.4 |
| | **DEPT OF INSURANCE** | 1 | .2 | .2 | 96.7 |
| | **TRADITION** | 1 | .2 | .2 | 96.9 |
| | **PROSECUTOR'S OFFICE** | 1 | .2 | .2 | 97.2 |
| | **NFPA HANDBOOK** | 1 | .2 | .2 | 97.4 |
| | **PERIODICALS** | 1 | .2 | .2 | 97.6 |
| | **ASTM, ASCLD-LAB** | 1 | .2 | .2 | 97.9 |

| | | | | | |
|---|---|---|---|---|---|
| | **CDF** | 1 | .2 | .2 | 98.1 |
| | **CODE BOOK** | 1 | .2 | .2 | 98.3 |
| | **KIRK'S, INTERFIRE** | 1 | .2 | .2 | 98.6 |
| | **ALL** | 1 | .2 | .2 | 98.8 |
| | **SOP'S** | 1 | .2 | .2 | 99.1 |
| | **DOD REGS** | 1 | .2 | .2 | 99.3 |
| | **AICPA LITIGATION ST** | 1 | .2 | .2 | 99.5 |
| | **OSHA** | 1 | .2 | .2 | 99.8 |
| | **CG MARINE SAFETYMAN** | 1 | .2 | .2 | 100.0 |
| | **Total** | 422 | 100.0 | 100.0 | |

**Responses to Question 21d - Do you apply ATF guidelines to your explosion investigations?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **YES** | 221 | 52.4 | 99.5 | 99.5 |
| | **NO** | 1 | .2 | .5 | 100.0 |
| | **Total** | 222 | 52.6 | 100.0 | |
| | **Missing** | 200 | 47.4 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 21e - Do you apply FBI guidelines to your explosion investigations?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **YES** | 119 | 28.2 | 100.0 | 100.0 |
| | **Missing** | 303 | 71.8 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 21f - What other published guidelines do you apply to your explosion investigations?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | | 355 | 84.1 | 84.1 | 84.1 |
| | **DEPARTMENTAL** | 20 | 4.7 | 4.7 | 88.9 |
| | **NFPA 921** | 16 | 3.8 | 3.8 | 92.7 |
| | **IABTI** | 5 | 1.2 | 1.2 | 93.8 |

| | | | | |
|---|---|---|---|---|
| **POSTAL** | 3 | .7 | .7 | 94.5 |
| **STATE** | 3 | .7 | .7 | 95.3 |
| **DOD-EOD** | 1 | .2 | .2 | 95.5 |
| **VARIES** | 1 | .2 | .2 | 95.7 |
| **NONE (YET)** | 1 | .2 | .2 | 96.0 |
| **BOSTON POLICE** | 1 | .2 | .2 | 96.2 |
| **KIRK'S** | 1 | .2 | .2 | 96.4 |
| **IABTI/BRODI** | 1 | .2 | .2 | 96.7 |
| **PRIVATE SECTOR** | 1 | .2 | .2 | 96.9 |
| **CO BUREAU INVESTIGATION** | 1 | .2 | .2 | 97.2 |
| **BLASTERS HNDBK** | 1 | .2 | .2 | 97.4 |
| **921** | 1 | .2 | .2 | 97.6 |
| **US ARMY** | 1 | .2 | .2 | 97.9 |
| **EXPLOSIVE HANDLING/SHIPMENT** | 1 | .2 | .2 | 98.1 |
| **DETONATOR** | 1 | .2 | .2 | 98.3 |
| **921 & KIRKS** | 1 | .2 | .2 | 98.6 |
| **NJ STATE POLICE** | 1 | .2 | .2 | 98.8 |
| **REFERENCE LIBRARY** | 1 | .2 | .2 | 99.1 |
| **FAAORDER** | 1 | .2 | .2 | 99.3 |
| **MD F.M. BOMB SQUAD** | 1 | .2 | .2 | 99.5 |
| **OSHA** | 1 | .2 | .2 | 99.8 |
| **HDS/MILITARY** | 1 | .2 | .2 | 100.0 |
| **Total** | 422 | 100.0 | 100.0 | |

**Responses to Question 22: Does your department use Standard Operating Procedures/Guidelines?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 353 | 83.6 | 85.9 | 85.9 |
| **NO** | 58 | 13.7 | 14.1 | 100.0 |
| **Total** | 411 | 97.4 | 100.0 | |
| **Missing** | 11 | 2.6 | | |
| **Total** | 422 | 100.0 | | |

| Responses to Question 23a: Does your department have any formal MOUs or MAPs with municipal agencies? | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **YES** | 204 | 48.3 | 62.2 | 62.2 |
| | **NO** | 124 | 29.4 | 37.8 | 100.0 |
| | **Total** | 328 | 77.7 | 100.0 | |
| | **Missing** | 94 | 22.3 | | |
| **Total** | | 422 | 100.0 | | |

| Responses to Question 23b: Does your department have any formal MOUs or MAPs with county agencies? | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **YES** | 196 | 46.4 | 59.4 | 59.4 |
| | **NO** | 134 | 31.8 | 40.6 | 100.0 |
| | **Total** | 330 | 78.2 | 100.0 | |
| | **Missing** | 92 | 21.8 | | |
| **Total** | | 422 | 100.0 | | |

| Responses to Question 23c: Does your department have any formal MOUs or MAPs with state agencies? | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **YES** | 177 | 41.9 | 57.5 | 57.5 |
| | **NO** | 131 | 31.0 | 42.5 | 100.0 |
| | **Total** | 308 | 73.0 | 100.0 | |
| | **Missing** | 114 | 27.0 | | |
| **Total** | | 422 | 100.0 | | |

| Responses to Question 23d: Does your department have any formal MOUs or MAPs with federal agencies? | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **YES** | 167 | 39.6 | 55.9 | 55.9 |
| | **NO** | 132 | 31.3 | 44.1 | 100.0 |
| | **Total** | 299 | 70.9 | 100.0 | |

| | | | | | |
|---|---|---|---|---|---|
| | **Missing** | 123 | 29.1 | | |
| | **Total** | 422 | 100.0 | | |

| **Responses to Question 24 - Are you a member of a formal task force?** | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **NO** | 286 | 67.8 | 69.6 | 69.6 |
| | **YES** | 125 | 29.6 | 30.4 | 100.0 |
| | **Total** | 411 | 97.4 | 100.0 | |
| | **Missing** | 11 | 2.6 | | |
| | **Total** | 422 | 100.0 | | |

| **Responses to Question 25a - As an investigator of fire scenes, have you had formal training in the investigation of fire scenes?** | | | | | |
|---|---|---|---|---|---|
| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
| | **YES** | 337 | 79.9 | 97.7 | 97.7 |
| | **NO** | 8 | 1.9 | 2.3 | 100.0 |
| | **Total** | 345 | 81.8 | 100.0 | |
| | **Missing** | 77 | 18.2 | | |
| | **Total** | 422 | 100.0 | | |

| **Responses to Question 25b - As an investigator of fire scenes, how many hours of training have you had?** | | | | | |
|---|---|---|---|---|---|
| **Responses** | **N** | **Minimum** | **Maximum** | **Mean** | **Std. Deviation** |
| **LOCAL FIRE INVESTIGATION TRAINING** | 187 | 0 | 3000 | 181.99 | 332.38 |
| **STATE FIRE INVESTIGATION** | 222 | 7 | 2000 | 220.51 | 284.60 |
| **FEDERAL FIRE INVESTIGATION TRAINING** | 224 | 5 | 2000 | 149.61 | 202.82 |
| **PRIVATE FIRE INVESTIGATION TRAINING** | 117 | 5 | 5000 | 279.88 | 682.68 |

| **Responses to Questions 26 & 27a: On a scale of 1 to 7, rate the importance of the following as part of the educational training in fire scene investigations (1=Not Important, 7=Very Important)** | | | | | |
|---|---|---|---|---|---|
| **Responses** | **N** | **Minimum** | **Maximum** | **Mean** | **Std. Deviation** |

| | | | | | |
|---|---|---|---|---|---|
| **FORMAL TRAINING** | 348 | 2 | 7 | 6.73 | .61 |
| **CHEMISTRY AND PHYSICS OF FIRE COURSES** | 348 | 2 | 7 | 6.01 | 1.15 |
| **FIRE DYNAMICS COURSES** | 347 | 3 | 7 | 6.18 | .98 |
| **BUILDING CONSTRUCTION AND ITS COMPONENTS COURSES** | 348 | 3 | 7 | 5.57 | 1.06 |
| **DETERMINING POINT OF ORIGIN COURSES** | 349 | 1 | 7 | 6.77 | .62 |
| **ACCIDENTAL FIRE CAUSES COURSES** | 349 | 3 | 7 | 6.41 | .86 |
| **INDICATORS OF INCENDIARISM COURSES** | 348 | 3 | 7 | 6.43 | .84 |
| **INCENDIARY DEVICES, EXPLOSIONS, AND EXPLOSIVES COURSES** | 348 | 0 | 7 | 6.13 | 1.12 |
| **AUTOMOBILE FIRE COURSES** | 347 | 1 | 7 | 5.63 | 1.25 |
| **FATAL FIRE INVESTIGATION COURSES** | 348 | 1 | 7 | 6.29 | 1.13 |
| **FIRE SCENE INVESTIGATION COURSES** | 349 | 4 | 8 | 6.72 | .57 |
| **COLLECTION AND PRESERVATION OF EVIDENCE COURSES** | 349 | 3 | 7 | 6.60 | .71 |
| **MOTIVATION OF FIRESETTER COURSES** | 347 | 1 | 7 | 5.37 | 1.22 |
| **REPORT WRITING COURSES** | 347 | 1 | 7 | 5.97 | 1.15 |
| **INTERVIEWS AND INTERROGATIONS COURSES** | 348 | 1 | 7 | 6.20 | 1.07 |
| **MANAGEMENT OF FIRE SCENES COURSES** | 346 | 1 | 7 | 5.70 | 1.31 |
| **USE OF MULTIPLE AGENCIES COURSES** | 343 | 1 | 7 | 4.88 | 1.42 |
| **FIRE DEMONSTRATIONS COURSES** | 345 | 1 | 7 | 5.34 | 1.40 |
| **PRACTICAL, HANDS ON SCENE PROCESSING (FIRE) COURSES** | 348 | 2 | 10 | 6.46 | .91 |
| **COURTROOM PREPARATION AND TESTIMONY (FIRE) COURSES** | 347 | 1 | 10 | 6.10 | 1.17 |
| **SEARCH AND SEIZURE (FIRE) COURSES** | 346 | 0 | 10 | 5.76 | 1.44 |
| **AIRCRAFT AND WATERCRAFT FIRES COURSES** | 339 | 1 | 7 | 4.15 | 1.69 |

| | | | | | |
|---|---|---|---|---|---|
| **Valid N (listwise)** | 328 | | | | |

**Responses to Question 27b - What other courses are important as part of the educational training in fire scene investigations?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| | 397 | 94.1 | 94.1 | 94.1 |
| **WILDLAND FIRES** | 3 | .7 | .7 | 94.8 |
| **ELECTRICAL FIRES** | 1 | .2 | .2 | 95.0 |
| **K9 ACCELERANT DETECTION** | 1 | .2 | .2 | 95.3 |
| **PHOTOGRAPHY&SCENESKETCHIN** | 1 | .2 | .2 | 95.5 |
| **UNDERSTANDINGWHATLABCANDO** | 1 | .2 | .2 | 95.7 |
| **AGRICULTURE/FARM EQUIP.** | 1 | .2 | .2 | 96.0 |
| **EXPERT TESTIMONY** | 1 | .2 | .2 | 96.2 |
| **PRACTICAL*>BURNBUILDINGS** | 1 | .2 | .2 | 96.4 |
| **USE OF REG/LOCAL RESOURCE** | 1 | .2 | .2 | 96.7 |
| **FINANCIAL INVEST TECHNIQU** | 1 | .2 | .2 | 96.9 |
| **DOCUMENTATION OF FIRE SCE** | 1 | .2 | .2 | 97.2 |
| **HAZ MAT** | 1 | .2 | .2 | 97.4 |
| **SCENE PHOTOGRAPHY** | 1 | .2 | .2 | 97.6 |
| **JUVENILE FIRESETTERS** | 1 | .2 | .2 | 97.9 |
| **OJT W/MENTOR** | 1 | .2 | .2 | 98.1 |
| **BASIC POLICE TRAINING** | 1 | .2 | .2 | 98.3 |
| **MOBILE HOUSES & RVS** | 1 | .2 | .2 | 98.6 |
| **INTERNET RESOURCES -FIRE** | 1 | .2 | .2 | 98.8 |
| **HANDS ON SITE SCENE PROC** | 1 | .2 | .2 | 99.1 |
| **GAS & ELECTRIC APPLIANCES** | 1 | .2 | .2 | 99.3 |
| **CASE LAW-LEGAL ARREST** | 1 | .2 | .2 | 99.5 |
| **USE POLICE AT FIRES** | 1 | .2 | .2 | 99.8 |
| **PHOTOGRAPHY** | 1 | .2 | .2 | 100.0 |
| **Total** | 422 | 100.0 | 100.0 | |

**Responses to Question 28 - What maximum duration training course for fire scene investigation**

| would be supported by your department? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | TWO WEEKS | 162 | 38.4 | 47.9 | 47.9 |
| | MORE THAN TWO WEEKS | 83 | 19.7 | 24.6 | 72.5 |
| | ONE WEEK | 74 | 17.5 | 21.9 | 94.4 |
| | LESS THAN ONE WEEK | 19 | 4.5 | 5.6 | 100.0 |
| | Total | 338 | 80.1 | 100.0 | |
| | Missing | 84 | 19.9 | | |
| Total | | 422 | 100.0 | | |

| Responses to Question 29a - Which criteria should be used for qualifying individuals to conduct fire scene investigations? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | ON THE JOB TRAINING TIME | 94 | 22.3 | 27.4 | 27.4 |
| | NUMBER OF INVESTIGATIONS | 14 | 3.3 | 4.1 | 31.5 |
| | BOTH ON THE JOB TRAINING TIME AND NUMBER OF INVESTIGATIONS | 235 | 55.7 | 68.5 | 100.0 |
| | Total | 343 | 81.3 | 100.0 | |
| | Missing | 79 | 18.7 | | |
| Total | | 422 | 100.0 | | |

| Responses to Question 29b - How much on the job training should be used to qualify individuals to conduct fire scene investigations? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | ONE TO TWO YEARS | 122 | 28.9 | 37.7 | 37.7 |
| | BETWEEN SEVEN MONTHS AND ONE YEAR | 88 | 20.9 | 27.2 | 64.8 |
| | MORE THAN TWO YEARS | 63 | 14.9 | 19.4 | 84.3 |
| | BETWEEN ONE AND SIX MONTHS | 51 | 12.1 | 15.7 | 100.0 |
| | Total | 324 | 76.8 | 100.0 | |
| | Missing | 98 | 23.2 | | |

| | | | | |
|---|---|---|---|---|
| **Total** | 422 | 100.0 | | |

**Responses to Question 29c - How many investigations should be required to qualify individuals to conduct fire scene investigations?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **26-50** | 88 | 20.9 | 34.6 | 34.6 |
| **51-100** | 61 | 14.5 | 24.0 | 58.7 |
| **11-25** | 47 | 11.1 | 18.5 | 77.2 |
| **<100** | 35 | 8.3 | 13.8 | 90.9 |
| **1-10** | 23 | 5.5 | 9.1 | 100.0 |
| **Total** | 254 | 60.2 | 100.0 | |
| **Missing** | 168 | 39.8 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 30 - On a scale of 1 to 7, Rate how often you use each of the following (1=Never, 7=Always):**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **SETTING AND SECURING A PERIMETER** | 344 | 0 | 7 | 5.05 | 1.93 |
| **LIMIT ACCESS TO ONLY ESSENTIAL PERSONNEL** | 344 | 0 | 7 | 5.78 | 1.66 |
| **SEARCHING FOR SECONDARY AND/OR ADDITIONAL DEVICES** | 342 | 1 | 7 | 5.64 | 1.80 |
| **RESPIRATORY PROTECTION EQUIPMENT** | 343 | 0 | 7 | 3.92 | 1.87 |
| **OTHER FORMS OF PERSONAL PROTECTIVE EQUIPMENT** | 342 | 1 | 7 | 5.39 | 1.57 |
| **WEAR NON-CONTAMINATED CLOTHING, FOOTWEAR, GLOVES, ETC** | 343 | 1 | 7 | 5.29 | 1.86 |
| **PHOTOGRAPH THE SCENE PRIOR TO AND DURING THE ENTRY AND EXIT** | 343 | 0 | 7 | 6.38 | 1.29 |
| **SKETCH THE SCENE** | 343 | 1 | 7 | 5.94 | 1.31 |
| **VIDEO RECORD THE SCENE PRIOR TO AND DURING THE ENTRY AND EXIT** | 340 | 0 | 7 | 3.45 | 2.04 |
| **CONDUCT A PERIMETER SCENE SEARCH** | 343 | 1 | 7 | 5.97 | 1.37 |
| **LOCATE THE POINT OF ORIGIN** | 343 | 1 | 8 | 6.83 | .56 |
| **COLLECT EVIDENCE AND PLACE IT IN** | 343 | 1 | 7 | 6.25 | 1.21 |

| | | | | | |
|---|---|---|---|---|---|
| **APPROPRIATE CONTAINERS** | | | | | |
| **ALWAYS BEING AWARE OF CROSS-CONTAMINATION AND AVOIDING IT** | 343 | 1 | 8 | 6.27 | 1.20 |
| **DOCUMENT EACH ITEM OF EVIDENCE AND LOG IT** | 344 | 1 | 8 | 6.44 | 1.19 |
| **SENDING THE EVIDENCE TO APPROPRIATE LAB(S) FOR ANALYSIS** | 341 | 1 | 6 | 6.20 | 1.41 |
| **CLEAN SCENE EQUIPMENT--AFTER EACH SAMPLE IS COLLECTED** | 342 | 1 | 8 | 5.94 | 1.61 |
| **SUBMITTING REFERENCE AND COMPARISON SAMPLES** | 342 | 1 | 7 | 5.72 | 1.65 |
| **COMPLY WITH SEARCH AND SEIZURE REQUIREMENTS** | 342 | 1 | 8 | 6.27 | 1.56 |

**Responses to Question 31a - What types of containers do you use in submitting fire debris to a laboratory for accelerant examination?**

| Responses | N |
|---|---|
| **UNLINED METAL CANS** | 280 |
| **LINED METAL CANS** | 88 |
| **GLASS CONTAINERS** | 140 |
| **PLASTIC CONTAINERS** | 46 |
| **PAPER BAGS** | 101 |
| **NYLON BAGS** | 32 |
| **KAPAK BAGS** | 30 |
| **PLASTIC (POLYETHYLENE) BAGS** | 57 |
| **CARDBOARD BOXES** | 64 |

**Responses to Question 31b - What other types of containers do you use in submitting fire debris to a laboratory for accelerant examination?**

| | Responses | N |
|---|---|---|
| | **PLASTIC FLUID JAR** | 2 |
| | **BUCKETS/5GALLON LI** | 1 |
| | **FILM CANS** | 1 |
| | **ZIPLOCK BAGS** | 1 |
| | **NYLON TO UNLINED** | 1 |

| | | |
|---|---|---|
| | **ROLLED POLYETHYLEN** | 1 |
| | **F(OF THE SPECIMAN)** | 1 |

**Responses to Question 32a - Have you had formal training in the investigation of bombing crime scenes?**

| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **YES** | 208 | 49.3 | 95.4 | 95.4 |
| | **NO** | 10 | 2.4 | 4.6 | 100.0 |
| | **Total** | 218 | 51.7 | 100.0 | |
| | **Missing** | 204 | 48.3 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 32b - How many hours of formal training in the investigation of bombing crime scenes have you had at the following levels?**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **LOCAL** | 60 | 8 | 1200 | 114.42 | 202.89 |
| **STATE** | 86 | 4 | 1000 | 86.47 | 159.83 |
| **FEDERAL** | 156 | 5 | 1000 | 148.85 | 164.09 |
| **PRIVATE** | 32 | 10 | 1000 | 123.19 | 189.24 |

**Responses to Questions 33 and 34 - On a scale of 1 to 7, rate the importance of the following as part of educational training in bombing scene investigations (1=Not Important, 7=Very Important):**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **FORMAL TRAINING** | 220 | 2 | 7 | 6.75 | .63 |
| **KNOWLEDGE OF FORENSIC LABORATORY CAPABILITIES** | 214 | 1 | 7 | 5.68 | 1.29 |
| **EXPLOSION THEORY AND BEHAVIOR** | 215 | 2 | 7 | 6.36 | .95 |
| **COMMERCIAL AND MILITARY EXPLOSIVE IDENTIFICATION** | 215 | 1 | 7 | 5.91 | 1.26 |
| **EXPLOSIVE DEVICE CONSTRUCTION METHODS AND FUSING SYSTEMS** | 215 | 2 | 7 | 6.49 | .89 |
| **IDENTIFICATION FEATURES OF BOMB COMPONENTS FOLLOWING AN EXPLOSION** | 215 | 2 | 7 | 6.64 | .75 |
| **EVIDENCE COLLECTION PROCEDURES AT A BOMBING SCENE** | 215 | 2 | 7 | 6.62 | .76 |

| | | | | | |
|---|---|---|---|---|---|
| **MANAGEMENT OF BOMBING SCENES** | 215 | 2 | 7 | 6.19 | 1.05 |
| **BOMB THREAT MANAGEMENT PROCEDURES** | 215 | 1 | 7 | 5.13 | 1.59 |
| **WEAPONS OF MASS DESTRUCTION** | 212 | 1 | 7 | 5.38 | 1.56 |
| **REPORT WRITING** | 215 | 2 | 7 | 5.82 | 1.27 |
| **INTERVIEWS AND INTERROGATIONS** | 215 | 2 | 7 | 6.00 | 1.23 |
| **MANAGEMENT OF MAJOR BOMBING SCENES (WORLD TRADE CENTER, OKLAHOMA CITY)** | 214 | 1 | 10 | 5.64 | 1.52 |
| **IDENTIFICATION FEATURES OF MILITARY ORDNANCE** | 215 | 1 | 7 | 5.56 | 1.40 |
| **EXPLOSIVES DEMONSTRATIONS** | 214 | 1 | 7 | 5.46 | 1.44 |
| **PRACTICAL, HANDS-ON SCENE PROCESSING** | 215 | 2 | 7 | 6.61 | .77 |
| **SEARCH AND SEIZURE, INCLUDING OCMPUTER SYSTEMS** | 214 | 1 | 7 | 5.83 | 1.30 |
| **COURTROOM PREPARTION AND PRESENTATION** | 215 | 2 | 7 | 5.94 | 1.21 |
| **CONTAMINATION ISSUES** | 215 | 1 | 7 | 6.16 | 1.06 |
| **DOCUMENTATION OF THE SCENE** | 214 | 2 | 7 | 6.42 | .94 |
| **BUILDING CONSTRUCTION AND ITS COMPONENTS** | 215 | 2 | 7 | 5.46 | 1.19 |
| **VEHICLE CONSTRUCTION (SMALL, LARGE, AIRCRAFT AND WATERCRAFT)** | 214 | 1 | 7 | 5.19 | 1.19 |
| **CHEMISTRY OF EXPLOSIVES AND EXPLOSIONS** | 214 | 1 | 7 | 5.80 | 1.28 |
| **FRAGMENTATION ANALYSIS** | 214 | 2 | 10 | 6.06 | 1.13 |

**Responses to Question 35 - What maximum duration training course for explosion scene investigation would be supported by your department?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **TWO WEEKS** | 93 | 22.0 | 43.9 | 43.9 |
| | **MORE THAN TWO WEEKS** | 59 | 14.0 | 27.8 | 71.7 |
| | **ONE WEEK** | 51 | 12.1 | 24.1 | 95.8 |
| | **LESS THAN A WEEK** | 9 | 2.1 | 4.2 | 100.0 |
| | **Total** | 212 | 50.2 | 100.0 | |

| | | | | | |
|---|---|---|---|---|---|
| | **Missing** | 210 | 49.8 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 36a - Which criteria should be used for qualifying individuals to conduct explosion scene investigations?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **BOTH ON THE JOB TRAINING AND NUMBER OF INVESTIGATIONS** | 161 | 38.2 | 74.5 | 74.5 |
| | **ON THE JOB TRAINING** | 43 | 10.2 | 19.9 | 94.4 |
| | **NUMBER OF INVESTIGATIONS** | 12 | 2.8 | 5.6 | 100.0 |
| | **Total** | 216 | 51.2 | 100.0 | |
| | **Missing** | 206 | 48.8 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 36b - How much On the Job training time should be used to qualify an individual to conduct explosion scene investigations?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **MORE THAN ONE YEAR BUT LESS THAN TWO YEARS** | 65 | 15.4 | 31.9 | 31.9 |
| | **BETWEEN SEVEN MONTHS AND ONE YEAR** | 61 | 14.5 | 29.9 | 61.8 |
| | **MORE THAN TWO YEARS** | 44 | 10.4 | 21.6 | 83.3 |
| | **BETWEEN ONE AND SIX MONTHS** | 34 | 8.1 | 16.7 | 100.0 |
| | **Total** | 204 | 48.3 | 100.0 | |
| | **Missing** | 218 | 51.7 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 36c - How many investigations should be used to qualify an individual to conduct explosion scene investigations?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **11-25** | 65 | 15.4 | 37.1 | 37.1 |
| | **1-10** | 48 | 11.4 | 27.4 | 64.6 |
| | **26-50** | 41 | 9.7 | 23.4 | 88.0 |
| | **51-100** | 16 | 3.8 | 9.1 | 97.1 |

| | | | | | |
|---|---|---|---|---|---|
| | **MORE THAN 100** | 5 | 1.2 | 2.9 | 100.0 |
| | **Total** | 175 | 41.5 | 100.0 | |
| | **Missing** | 247 | 58.5 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 37 - On a scale of 1 to 7, rate how often you use each of the following (1=Never, 7=Always):**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **SET AND SECURE A PERIMETER UNTIL AN INVESTIGATOR ARRIVES** | 206 | 1 | 7 | 5.48 | 2.22 |
| **SEARCH FOR SECONDARY AND/OR ADDITIONAL DEVICES** | 207 | 1 | 7 | 6.22 | 1.50 |
| **CALL IN A BOMB TEAM AND/OR BOMB TECHNICIAN** | 202 | 1 | 7 | 5.57 | 2.07 |
| **RESPIRATORY PROTECTION EQUIPMENT** | 208 | 0 | 7 | 3.91 | 1.88 |
| **OTHER FORMS OF PERSONAL PROTECTIVE EQUIPMENT** | 208 | 1 | 7 | 5.51 | 1.49 |
| **WEAR NON-CONTAMINATED CLOTHING, FOOTWEAR, GLOVES, ETC.** | 208 | 1 | 7 | 5.13 | 1.92 |
| **PHOTOGRAPH THE SCENE PRIOR TO AND DURING THE ENTRY AND EXIT** | 209 | 1 | 7 | 6.05 | 1.70 |
| **VIDEO RECORD THE SCENE PRIOR TO AND DURING THE ENTRY AND EXIT** | 208 | 1 | 7 | 4.27 | 2.11 |
| **LOCATE THE FARTHEST PIECE OF EVIDENCE** | 208 | 1 | 7 | 6.34 | 1.33 |
| **LOCATE THE CENTER OF THE BLAST** | 208 | 1 | 7 | 6.66 | .95 |
| **COLLECT EVIDENCE AND PLACE IN APPROPRIATE CONTAINER** | 207 | 1 | 7 | 6.57 | 1.02 |
| **ARE ALWAYS BEING AWARE OF CROSS-CONTAMINATION AND AVOIDING IT** | 208 | 1 | 7 | 6.31 | 1.25 |
| **DOCUMENT EACH ITEM OF EVIDENCE AND LOG IT IN** | 208 | 1 | 7 | 6.50 | 1.16 |
| **SEND THE EVIDENCE TO APPROPRIATE LAB FOR ANALYSIS** | 208 | 1 | 7 | 6.35 | 1.29 |
| **TAKE CRATER MEASUREMENTS** | 208 | 1 | 7 | 5.75 | 1.60 |
| **DOCUMENT SIGN BENDING** | 207 | 1 | 7 | 4.94 | 1.95 |
| **DOCUMENT GLASS BREAKAGE** | 207 | 1 | 7 | 5.22 | 1.74 |

| | | | | | |
|---|---|---|---|---|---|
| **DOCUMENT STRUCTURAL FAILURE** | 207 | 1 | 7 | 5.37 | 1.80 |

**Responses to Question 38 - What types of containers do you use in submitting explosion debris to a laboratory for examination?**

| Responses | N |
|---|---|
| **UNLINED METAL CANS** | 173 |
| **LINED METAL CANS** | 53 |
| **GLASS CONTAINERS** | 95 |
| **PLASTIC CONTAINERS** | 57 |
| **PAPER BAGS** | 122 |
| **NYLON BAGS** | 32 |
| **KAPAK BAGS** | 29 |
| **PLASTIC (POLYETHYLENE) BAGS** | 71 |
| **CARDBOARD BOXES** | 104 |
| **ANTI-STATIC BAGS** | 43 |

**Responses to Question 38b - Other types of containers used in submitting explosion debris to a laboratory for examination:**

| Responses | | N |
|---|---|---|
| | **PAPER ENV, FILM CONT** | 1 |

**Responses to Question 39 - What extent of funding does your agency provide to continuing education and training in the field of fire/explosion investigation?**

| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **FULL FUNDING** | 272 | 64.5 | 66.5 | 66.5 |
| | **PARTIAL FUNDING** | 104 | 24.6 | 25.4 | 91.9 |
| | **NO FUNDING** | 33 | 7.8 | 8.1 | 100.0 |
| | **Total** | 409 | 96.9 | 100.0 | |
| | **Missing** | 13 | 3.1 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 40 - On a scale of 1 to 7, To what extent does your agency encourage continuing college level course work for each investigator? (1=Not Encouraging, 7=Very Encouraging)**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| **RATING OF ENCOURAGEMENT** | 405 | 1 | 7 | 4.15 | 2.11 |

**Responses to Question 41 - On a scale of 1 to 7, how interested would you be in taking college level courses (1=Not Interested, 7=Very Interested)?**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **ON CAMPUS** | 313 | 1 | 7 | 5.19 | 1.96 |
| **DISTANCE LEARNING (CORRESPONDENCE)** | 355 | 0 | 7 | 5.70 | 1.65 |
| **DISTRIBUTED LEARNING VIA THE WEB** | 316 | 1 | 7 | 5.69 | 1.73 |

**Responses to Question 42 - On a scale of 1 to 7, how important would each of the following resources be to you as a fire or explosion investigator (1=Not Important, 7=Very Important)?**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **LIST OF PEOPLE WORKING IN THE FIELD-PRIVATE AND GOVERNMENT** | 408 | 1 | 7 | 5.10 | 1.56 |
| **CREATION OF A SECURE INTERNET LINK FOR EMAIL AND INFORMATION EXCHANGE BETWEEN PROFESSIONALS IN THE FIELD** | 407 | 1 | 7 | 5.56 | 1.44 |
| **ESTABLISHMENT OF SCENE GUIDELINES** | 407 | 1 | 7 | 5.56 | 1.61 |
| **CREATION OF A GLOSSARY OF ANALYTICAL, EXPLOSIVES, AND FIRE INVESTIGATIVE TECHNOLOGY** | 408 | 1 | 7 | 5.62 | 1.31 |
| **CREATION OF A NATIONAL DATABASE FOR TRACKING BOMBING MATTERS** | 400 | 1 | 7 | 5.61 | 1.68 |
| **CREATION OF A NATIONAL DATABASE FOR TRACKING ARSON MATTERS** | 405 | 1 | 7 | 5.87 | 1.50 |
| **ESTABLISHMENT OF A NATIONAL RESOURCE DATABASE FOR INVESTIGATIVE EXPERTISE** | 408 | 1 | 7 | 5.90 | 1.35 |
| **ESTABLISHMENT OF A NATIONAL EXPLOSIVES FORMULATION DATABASE** | 398 | 1 | 7 | 5.30 | 1.69 |
| **CREATION OF A BULLETIN OBARD FOR COMMUNICATION BETWEEN EXPLOSION INVESTIGATORS** | 397 | 1 | 7 | 5.15 | 1.74 |
| **CREATION OF A BULLETIN BOARD FOR COMMUNICATION BETWEEN FIRE** | 403 | 1 | 7 | 5.53 | 1.51 |

| | | | | | |
|---|---|---|---|---|---|
| **INVESTIGATORS** | | | | | |
| **DATABASE OF EXPLOSION INVESTIGATIVE TRAINING MANUALS AND MATERIALS** | 400 | 1 | 7 | 5.60 | 1.53 |
| **INFORMATION CENTER FOR INTER-AGENCY TRAINING EXERCISES** | 403 | 1 | 7 | 5.60 | 1.46 |
| **ACCESS TO LABORATORY EXPERTS AT THE SCENE** | 406 | 1 | 7 | 5.73 | 1.49 |
| **ACCESS TO PROSECUTORS AT THE SCENE** | 402 | 1 | 7 | 5.16 | 1.76 |

**Responses to Question 43 - Can you access Internet resources from your agency?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 366 | 86.7 | 88.8 | 88.8 |
| **NO** | 46 | 10.9 | 11.2 | 100.0 |
| **Total** | 412 | 97.6 | 100.0 | |
| **Missing** | 10 | 2.4 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 44 - On a scale of 1 to 7, if any or all of the resources listed in Question 42 were made available through an Internet web site, how likely would you be to utilize that information? (1=Not Likely, 7=Very Likely)**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **LIKELIHOOD RATING** | 411 | 1 | 7 | 5.91 | 1.30 |

**Responses to Question 45 - Are you familiar with the Technical Working Group for Fire and Explosions (TWGFEX)?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **NO** | 367 | 87.0 | 88.6 | 88.6 |
| **YES** | 47 | 11.1 | 11.4 | 100.0 |
| **Total** | 414 | 98.1 | 100.0 | |
| **Missing** | 8 | 1.9 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 46 - On a scale of 1 to 7, how important is it to you to have a technical working group engage in the following activities (1=Not at all, 7=Very Important):**

| Resources | N | Minimum | Maximum | Mean | Std |
|---|---|---|---|---|---|

| | | | | | Deviation |
|---|---|---|---|---|---|
| **PUBLISHING GUIDELINES FOR EXPLOSION AND FIRE INVESTIGATIONS** | 396 | 1 | 7 | 5.27 | 1.67 |
| **VALIDATING GUIDELINES FOR EXPLOSION AND FIRE INVESTIGATIONS** | 394 | 1 | 7 | 5.36 | 1.65 |
| **ASSISTING FIRE AND EXPLOSION INVESTIGATORS IN GAINING CERTIFICATION** | 397 | 1 | 7 | 5.58 | 1.59 |
| **MAINTAINING INTERNET LIBRARY OR DATABASES OF EXPLOSION AND FIRE INVESTIGATION** | 396 | 1 | 7 | 5.64 | 1.42 |
| **PROMOTING/OFFERING CONTINUING EDUCATION COURSES IN EXPLOSION AND FIRE INVESTIGATION** | 395 | 1 | 7 | 6.11 | 1.15 |
| **TRACKING AND DISSEMINATING RESULTS OF COURT CASES INVOLVING EXPLOSIN AND FIRE INVESTIGATION** | 395 | 1 | 7 | 5.59 | 1.37 |
| **PROMOTING INTERNATIONAL PARTICIPATION IN AN EXPLOSION AND FIRE INVESTIGATORS TECHNICAL WORKING GROUP** | 395 | 1 | 10 | 5.30 | 1.53 |
| **THE ESTABLISHMENT OF A COLLECTION OF METHODS AND GUIDELINES FOR EVIDENCE COLLECTION** | 393 | 1 | 7 | 5.54 | 1.55 |

**Responses to Question 47 - On a scale of 1 to 7, Rate how useful you would find each of the following methods for disseminating information from TWGFEX (1=Not at all useful, 7=Very useful):**

| Responses | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| **MAILED INFORMATION** | 390 | 1 | 7 | 5.65 | 1.41 |
| **PHONE CALLS** | 379 | 1 | 44 | 3.76 | 2.83 |
| **ELECTRONIC MAIL** | 387 | 1 | 7 | 5,29 | 1,65 |
| **INTERNET WEB SITES OR DATABASES** | 388 | 1 | 7 | 5.69 | 1.40 |
| **TRADE JOURNALS OR NEWSPAPERS** | 386 | 1 | 7 | 5.19 | 1.51 |
| **CONFERENCE PRESENTATIONS** | 389 | 1 | 7 | 5.30 | 1.49 |
| **SPECIAL SEMINARS** | 388 | 1 | 7 | 5.48 | 1.41 |
| **ASSOCIATION NEWSLETTERS** | 386 | 1 | 7 | 5.40 | 1.42 |

**Responses to Question 48 - Does your agency provide fire/explosion investigative literature and**

| publications for you to reference? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | YES | 266 | 63.0 | 65.4 | 65.4 |
| | NO | 141 | 33.4 | 34.6 | 100.0 |
| | Total | 407 | 96.4 | 100.0 | |
| | Missing | 15 | 3.6 | | |
| Total | | 422 | 100.0 | | |

| Responses to Question 49a - Have you ever given an opinion concerning the origin and cause of a fire and/or explosion in a court of law? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | YES | 254 | 60.2 | 61.5 | 61.5 |
| | NO | 159 | 37.7 | 38.5 | 100.0 |
| | Total | 413 | 97.9 | 100.0 | |
| | Missing | 9 | 2.1 | | |
| Total | | 422 | 100.0 | | |

| Responses to Question 49b - How many times have you given an opinion concerning the origin and cause of a fire and/or explosion in a civil court? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | 1-5 | 105 | 24.9 | 49.1 | 49.1 |
| | 11 OR ABOVE | 70 | 16.6 | 32.7 | 81.8 |
| | 6-10 | 39 | 9.2 | 18.2 | 100.0 |
| | Total | 214 | 50.7 | 100.0 | |
| | Missing | 208 | 49.3 | | |
| Total | | 422 | 100.0 | | |

| Responses to Question 49c - How many times have you given an opinion concerning the origin and cause of a fire and/or explosion in a criminal court? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | 1-5 | 96 | 22.7 | 41.4 | 41.4 |
| | 11 OR ABOVE | 91 | 21.6 | 39.2 | 80.6 |
| | 6-10 | 45 | 10.7 | 19.4 | 100.0 |

| | | | | | |
|---|---|---|---|---|---|
| | **Total** | 232 | 55.0 | 100.0 | |
| | **Missing** | 190 | 45.0 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 50 - Has your expertise been challenged under the Daubert or Kuhmo Tire v. Carmichael decision?**

| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
|---|---|---|---|---|---|
| | **NO** | 355 | 84.1 | 95.2 | 95.2 |
| | **YES** | 18 | 4.3 | 4.8 | 100.0 |
| | **Total** | 373 | 88.4 | 100.0 | |
| | **Missing** | 49 | 11.6 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 51 - Are you EPA HAZMAT certified?**

| **Responses** | | **Frequency** | **Percent** | **Valid Percent** | **Cumulative Percent** |
|---|---|---|---|---|---|
| | **NO** | 241 | 57.1 | 58.6 | 58.6 |
| | **YES** | 170 | 40.3 | 41.4 | 100.0 |
| | **Total** | 411 | 97.4 | 100.0 | |
| | **Missing** | 11 | 2.6 | | |
| **Total** | | 422 | 100.0 | | |

**Responses to Question 51b - To what level are you EPA HAZMAT certified?**

| **Responses** | **N** |
|---|---|
| **TECHNICIAN** | 38 |
| **OPERATIONS** | 28 |
| **AWARENESS LEVEL** | 10 |
| **FIRST RESPONDER** | 6 |
| **SPECIALIST** | 6 |
| **RESPONDER** | 5 |
| **HAZ MAT TECH** | 5 |
| **HAZWHOPER** | 4 |
| **LEVEL II** | 4 |
| **LEVEL I** | 3 |

| | | |
|---|---|---|
| | **LEVEL A** | 2 |
| | **LEVEL V** | 2 |
| | **BASIC** | 2 |
| | **TECHNICIAN III** | 2 |
| | **INCIDENT COMMAND** | 1 |
| | **FIRST RESPONDER/SUPERVISOR** | 1 |
| | **INCIDENT REOP OPER** | 1 |
| | **TECHNICIAN I** | 1 |
| | **RI** | 1 |
| | **HAZMAT INSTRUCTOR,TECH,MEDIC** | 1 |
| | **SITE TECHNICIAN** | 1 |
| | **HANDLER** | 1 |
| | **ON SCENCE INCID** | 1 |
| | **LEVEL III OPS** | 1 |
| | **OPERATIONS/I.C.** | 1 |
| | **165.5** | 1 |
| | **IFSAC CERTIFIED OPERATIONS** | 1 |
| | **TECHNICIAN IV** | 1 |
| | **40 HOUR** | 1 |
| | **SPECIALIST/NFPA TECHNICIAN** | 1 |
| | **1C** | 1 |
| | **A** | 1 |
| | **LEVEL III** | 1 |
| | **ALL LEVELS** | 1 |
| | **HAZ MAT FIRST RESPONDER** | 1 |
| | **TRAINER** | 1 |
| | **FIRE RESPONDER** | 1 |
| | **NUIEM** | 1 |
| | **INVESTIGATIONS (GLENCOE)** | 1 |
| | **CLASS B** | 1 |
| | **HAZMAT COMMAND** | 1 |

| | | |
|---|---|---|
| | **1** | 1 |
| | **48HR HAZMATTECH** | 1 |

**Responses to Question 52a - Are you aware of the NFPA standards and guidelines on safety?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 336 | 79.6 | 83.2 | 83.2 |
| **NO** | 68 | 16.1 | 16.8 | 100.0 |
| **Total** | 404 | 95.7 | 100.0 | |
| **Missing** | 18 | 4.3 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 52b - Are you aware of the OSHA standards and guidelines on safety?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 292 | 69.2 | 75.5 | 75.5 |
| **NO** | 95 | 22.5 | 24.5 | 100.0 |
| **Total** | 387 | 91.7 | 100.0 | |
| **Missing** | 35 | 8.3 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 52c - Are you aware of the EPA standards and guidelines on safety?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 230 | 54.5 | 60.7 | 60.7 |
| **NO** | 149 | 35.3 | 39.3 | 100.0 |
| **Total** | 379 | 89.8 | 100.0 | |
| **Missing** | 43 | 10.2 | | |
| **Total** | 422 | 100.0 | | |

**Responses to Question 52d - Do you follow any or all of these standards and guidelines as they relate to fire investigations?**

| Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|
| **YES** | 290 | 68.7 | 84.3 | 84.3 |
| **NO** | 54 | 12.8 | 15.7 | 100.0 |
| **Total** | 344 | 81.5 | 100.0 | |

| | | | | | |
|---|---|---|---|---|---|
| | **Missing** | 78 | 18.5 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 52e - Do you follow any or all of these standards and guidelines as they relate to explosion investigations?**

| | Responses | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| | **YES** | 170 | 40.3 | 74.9 | 74.9 |
| | **NO** | 57 | 13.5 | 25.1 | 100.0 |
| | **Total** | 227 | 53.8 | 100.0 | |
| | **Missing** | 195 | 46.2 | | |
| | **Total** | 422 | 100.0 | | |

**Responses to Question 53 - At what level does your agency provide the following medical screening:**

| Responses | N |
|---|---|
| **NO MEDICAL SCREENING** | 146 |
| **BASELINE SCREENING** | 162 |
| **PERIODIC PHYSICAL EXAM** | 203 |
| **PERIODIC CARDIAC STRESS TESTING** | 105 |
| **RESPIRATORY TESTING** | 137 |

**Responses to Question 53a - Frequency of periodic physical exams provided by your agency:**

| | Responses | N |
|---|---|---|
| | **YEARLY** | 138 |
| | **2YRS** | 26 |
| | **3YRS** | 9 |
| | **5YRS** | 9 |
| | **1.5YRS** | 3 |
| | **.5YRS** | 2 |
| | **YEARLY/EACHEXP** | 1 |
| | **PERIODIC** | 1 |
| | **RANDOM** | 1 |
| | **TWICE YRLY** | 1 |
| | **AT AGE 40 & 55** | 1 |

| | | |
|---|---|---|
| | **AGE BASED** | 1 |
| | **AS REQUIRED** | 1 |
| | **YEARLY OR PROMOTION** | 1 |
| | **AGE 40 IN 5YR INCREMENTS EVERYYR@50** | 1 |
| | **BIANNUALLY** | 1 |

| **Responses to Question 53b - Frequency of periodic cardiac stress testing provided by your agency:** | | |
|---|---|---|
| **Responses** | | **N** |
| | **YEARLY** | 61 |
| | **2YRS** | 16 |
| | **5YRS** | 8 |
| | **3YRS** | 5 |
| | **AS NEEDED** | 3 |
| | **.5YRS** | 2 |
| | **YEARLY** | 1 |
| | **OVER 40** | 1 |
| | **INITIAL** | 1 |
| | **2.5YRS** | 1 |
| | **REQUEST** | 1 |
| | **40YRS OLD** | 1 |
| | **BIANNUALL** | 1 |

| **Responses to Question 53c - Frequency of periodic respiratory testing provided by your agency:** | | |
|---|---|---|
| **Responses** | | **N** |
| | **YEARLY** | 103 |
| | **2YRS** | 17 |
| | **5YRS** | 6 |
| | **3YRS** | 4 |
| | **.5YRS** | 2 |
| | **REQUEST** | 1 |
| | **VARIES** | 1 |

| Responses to Question 54 - Does your agency provide a physical fitness program? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | NO | 255 | 60.4 | 64.1 | 64.1 |
| | YES | 143 | 33.9 | 35.9 | 100.0 |
| | Total | 398 | 94.3 | 100.0 | |
| | Missing | 24 | 5.7 | | |
| Total | | 422 | 100.0 | | |

| Responses to Question 55 - Does your agency have a physical fitness requirement? | | | | | |
|---|---|---|---|---|---|
| Responses | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | NO | 274 | 64.9 | 68.5 | 68.5 |
| | YES | 126 | 29.9 | 31.5 | 100.0 |
| | Total | 400 | 94.8 | 100.0 | |
| | Missing | 22 | 5.2 | | |
| Total | | 422 | 100.0 | | |

| Responses to Question 56a - Identify areas of research in fire and explosion invetigation that you would like to see explored: | | |
|---|---|---|
| | Responses | N |
| | ELECTRICAL CAUSE & ORIGIN | 10 |
| | VEHICLE FIRES | 8 |
| | JUVENILE FIRESETTERS | 6 |
| | WMD ROBOTIC VEHICLE | 4 |
| | FIRE MODELING | 4 |
| | EVIDENCE COLLECTION METHODS | 3 |
| | COMPUTER MODELING | 3 |
| | ORIGIN & CAUSE | 3 |
| | COURTROOM TESTIMONY | 2 |
| | LAB ANALYSIS OF IGNITABLE LIQUIDS | 2 |
| | SEARCH & SEIZURE | 2 |
| | LARGE VEHICLE BOMBS | 2 |
| | INTELLIGENCE NETWORK | 2 |

| | | |
|---|---|---|
| | **CAUSE & ORIGIN** | 2 |
| | **INTERNET RESOURCES** | 2 |
| | **FIRE BEHAVIOR** | 2 |
| | **NEW BUILDING MATERIALS** | 1 |
| | **AMOUNT OF EXPLOSIVES/DAMAGE** | 1 |
| | **EFFECTS OF FIRE ON ELECTRICAL SYSTEMS** | 1 |
| | **APPLIED RESEARCH SUPPORTING FIELD INVESTIGATIONS** | 1 |
| | **INTERVIEW/INTERROGATION** | 1 |
| | **GOV'T FUNDED TRAINING** | 1 |
| | **CERTIFICATION OF INVESTIGATORS** | 1 |
| | **USE OF K-9'S** | 1 |
| | **NATIONAL CFI STANDARD** | 1 |
| | **SUSPECT/VICTIM BACKGROUND** | 1 |
| | **MORE KNOWLEDGE IN THE FIELD** | 1 |
| | **BETTER X-RAY CAPABILITIES** | 1 |
| | **BETTER LABS AND SAMPLE TAKING** | 1 |
| | **TAGANTS** | 1 |
| | **CONTINUED RESOURCES FOR CERTIFICATION** | 1 |
| | **ELECTRICAL CAUSED FIRES FOR IDIOTS** | 1 |
| | **RESPIRATORY/CARDIAC ILLNESS DUE TO FIRE INVESTIGATIONS** | 1 |
| | **CAUSE DETERMINATION** | 1 |
| | **COURT DECISIONS RE USE OF ACC DET K-9S** | 1 |
| | **SECURED WEB SITE** | 1 |
| | **PYRELISIS** | 1 |
| | **HUMAN SPONTANEOUS COMBUSTION** | 1 |
| | **DATABASE TO ACCESS INFO. ON FIRE** | 1 |
| | **METRHOD FOR SUCCESSFUL DEVELOPMENT&LIFT/PHOTO.OFLATENT FINGERPRINTSFROM2LITERPLASTIC "ACID BOMBS"** | 1 |
| | **FULL SCALE TESTING** | 1 |
| | **HIGHER EDUCATION AS PERTAINS TO FIRE & EXPLOSION** | 1 |
| | **CONTAMINATION OF EVIDENCE** | 1 |

| | | |
|---|---|---|
| | **MORE ACCESSIBLE HAND ON TRAINING SEMINAR** | 1 |
| | **FIRE PATTERN ANALYSIS** | 1 |
| | **WILDLAND FIRE INVESTIGATION** | 1 |
| | **INTERVIEWING** | 1 |
| | **ELECTRONIC EXCHANGE INFORMATION** | 1 |
| | **FULL SCALE FIRE LABORATORIES (FOR INVESTIGATORS)** | 1 |
| | **LAB ANALYSIS OF EVIDENCE** | 1 |
| | **BETTER PAY & BENIFITS** | 1 |
| | **ARSON FOR PROFIT (INSURANCE)** | 1 |
| | **REMOVING THE FBI FROM ANY PARTICIPATION** | 1 |
| | **TEXTILE BURN RATE TRAINING** | 1 |
| | **AUTO FIRE CAUSES** | 1 |
| | **EXPLOSIVE TAGGING** | 1 |
| | **MORE ACCIDENTAL CAUSE TESTING** | 1 |
| | **NATURE & APP OF CHARRING W/WO INGN LIQ** | 1 |
| | **DIFFUSION CHARACTERISTICS OF FUEL GAS LEAKS IN STRUCTURES** | 1 |
| | **DIFFERENTIAL DIAGNOSIS OF FIRE CAUSE** | 1 |
| | **CHEMICALS PURCHASED AT LOCAL STORES** | 1 |
| | **ON THE SCENCE INVESTIGATION** | 1 |
| | **LET ONLY FIRE INVEST./SPECIALISTS IN THE FIRE FIELD DEVELOP GUIDELINES IN NFPA 921** | 1 |
| | **TERRORIST-PSYCHOLOGY OF** | 1 |
| | **BLAST PRESSURE ANALYSIS** | 1 |
| | **IDENTIFYING & ANALYIZING FIRE PATTERNS** | 1 |
| | **MAJOR SCENE CONTROL** | 1 |
| | **LIGHTWEIGHTPACKPACK-BRIEFCASESIZESNIFFER** | 1 |
| | **EXPLOSIVES RESIDUE ANALYSES** | 1 |
| | **FIRE SPREAD** | 1 |
| | **TESTING SUSPECTED IGNITION SCENARIOS** | 1 |
| | **LOW HEAT IGNITION TEMPS** | 1 |
| | **CLASS A FOAM. & FIRE INVEST** | 1 |

| | | |
|---|---|---|
| | **REQUIRE BOMB TECH ATTEND POST BLAST SCHL** | 1 |
| | **HAVE JUDGES & DA'S MORE KNOWLEDAGABLE IN EXPLOSIVES** | 1 |
| | **JUVENILE PIPE BOMB** | 1 |
| | **SPONTANEOUS HEATING** | 1 |
| | **ELEMENT IDENTIFICATION** | 1 |
| | **ADVANCED ORIGINS & CAUSE** | 1 |
| | **MORE IN DEPTH PSYCHOLOGICAL PROFILING** | 1 |
| | **AUTO FIRES - KEYPATHING** | 1 |
| | **UCF NOT DUPLICATE WHAT HAS BEEN DONE** | 1 |
| | **ADVANCED SCENE EXAM** | 1 |
| | **USING UV & OTHER LIGHT SOURCES FOR ACCELERANT DETECTION** | 1 |
| | **NFA IN M.D.** | 1 |
| | **CERTIFICATION PROGRAM FOR NJ STATE** | 1 |
| | **PRIVATE LICENSING** | 1 |
| | **MORE SEMINARS/NATIONWIDE** | 1 |
| | **PRATICAL METH OF DETONATING LG CAR BOMB** | 1 |
| | **FIRE MODELING WITH GOOD SOFTWARE** | 1 |
| | **APPLIANCE FIRE INVESTIGATION** | 1 |
| | **ELECTRICAL** | 1 |
| | **NAT'L MANDANTORY INVEST GUIDELINES** | 1 |
| | **VOLUNTEER FF ARSONS** | 1 |
| | **NO. INCENDIARY FIRES VS THOSE PROSECUTED** | 1 |
| | **INCENDIARY DEVICES** | 1 |
| | **LAB ANALYSIS OF FIRE DEBRIS & SET STAND** | 1 |
| | **CO-OP BTWN DEPARTMENTS** | 1 |
| | **COMPUTER SOFTWARE** | 1 |
| | **BURN RATES** | 1 |
| | **IED DEVELOPMENT & PRODUCTION** | 1 |
| | **TESTING** | 1 |
| | **"LIVE" BURN * EXPLOSION TESTING** | 1 |
| | **FIRE DYNAMICS IN STRUCTURES** | 1 |

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|---|---|---|
| | **TYPES OF ACCELERANTS USED** | 1 |
| | **EXPLOSIVE ID** | 1 |
| | **APPLIANCE FAILURES** | 1 |
| | **FIRE SPREAD VIA AIR PATTERNS** | 1 |
| | **AIRCRAFT EXPLOSION EFFECTS** | 1 |
| | **METALLURGICAL REACTIONS** | 1 |
| | **MANDANTORY AUTOPSIES FOR FIRE DEATHS** | 1 |
| | **SMOLDERING FIRES** | 1 |
| | **TEST BURNS OF MATERIALS IN FIELD SETTING** | 1 |
| | **LEVEL BELOW BOMB TECHNICIAN** | 1 |
| | **BURN PATTERN** | 1 |
| | **IED CONSTRUCTION-MISTAKES & HAZARDS** | 1 |
| | **CHEMISTRY & PHYSICS OF FIRE** | 1 |
| | **MORE EDUCATION** | 1 |
| | **TRAINING OF PROSECUTORS** | 1 |
| | **NAT'L DATABASE THAT WORKS** | 1 |
| | **HEALTH HAZARDS** | 1 |
| | **AIRCRAFT EXPLOSION** | 1 |
| | **HANDS ON VEHICLE BURNS** | 1 |
| | **CASE LAW** | 1 |
| | **SMALL/INITIAL IGNITION OF MATERIALS** | 1 |
| | **CRIME SCENE INVESTIGATION** | 1 |
| | **VEHICLE FIRES-LATE MODELS, NOT FROM 70'S** | 1 |
| | **FIRE SUPPRESSION USING FOAM APPLICATION MINUS VENTILATION** | 1 |
| | **QUICKER LAB RESULTS** | 1 |
| | **STRUCTURE** | 1 |
| | **CASE BRIEFS ON INTERNET** | 1 |
| | **DATABASE FOR TRACKING ARSON** | 1 |
| | **POST BLAST ADVANCED CLASSES** | 1 |
| | **PATTERNS** | 1 |
| | **APPLICANCE FAILURES** | 1 |

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| | **MANDATED EDUCATION** | 1 |
| | **ALL** | 1 |
| | **FUNDING FOR MORE LIVE BURN & EXPLOSIVES FOR TRAINING** | 1 |
| | **DI-POLE MITE ON SMALLER SCALE** | 1 |
| | **STANDARDIZED ACCLERANT & EXPLOSIVES CANINE PROTOCOLS** | 1 |
| | **CAUSE AND ORIGIN/COMPLYING WITH NFPA 921, ETC.** | 1 |
| | **WHY ATF CALLS 50% OF THEIR FIRES ARSON?** | 1 |
| | **HOW THE INTERNET EFFECTS BOMB MAKING BY JUVENILES** | 1 |
| | **MORE TRAINING** | 1 |
| | **FIRE EDUCATION FOR PUBLIC** | 1 |
| | **LIVE BURNS-RESULTS** | 1 |
| | **STANDARDIZATION FOR EXP. INVESTIGATIONS** | 1 |
| | **FIRE CAUSE & MOTIVE** | 1 |
| | **VIDEO/COMPUTER TRAINING** | 1 |
| | **K-9 VS LAB EQUIPMENT** | 1 |
| | **RESOURCE MATERIAL AVAILABLE RE EXPLOSIVES/COMPOUNDS** | 1 |
| | **NONE AT THIS TIME** | 1 |
| | **POST BLAST INCIDENT EFFECT ON INVESTIGATORS** | 1 |
| | **COOPERATION BETWEEN POLICE-FIRE & PROSECUTOR'S** | 1 |
| | **POST BLAST ANALYSIS** | 1 |
| | **IMPROVISED EXPLOSIVES** | 1 |
| | **ACCELLERDETECT** | 1 |
| | **VEHICLE FIRE CAUSES & STATE** | 1 |
| | **AREAS OF HIGH RISK** | 1 |
| | **FIRE EFFECTS OF VARIOUS COMBUSTIBLES** | 1 |

**Responses to Question 56b - Additional areas of research in fire and explosion invetigation that you would like to see explored:**

| | **Responses** | **N** |
|---|---|---|
| **Valid** | **VEHICLE FIRES** | 4 |
| | **ELECTRICAL FIRE ORIGIN & CAUSE** | 3 |
| | **EVIDENCE COLLECTION** | 2 |

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| | **ARSON AS IT RELATES TO FRAUD/PROFIT** | 2 |
| | **FIRE BEHAVIOR** | 2 |
| | **ELECTRICAL FIRE CAUSES** | 2 |
| | **RESIDUE ANALYSIS RESEARCH** | 1 |
| | **POST BLAST EXAMINATIONS PROCEDURE** | 1 |
| | **PROS OF ARSON CASES FOR PROS. ATTORNEYS** | 1 |
| | **ON SITE TRAINING FOR SMALL AGENCIES** | 1 |
| | **FIRE/POLICE COMBINATIONS INVESTIGATIONS VS. INVESTIGATIONS BY SINGLE AGENCY** | 1 |
| | **LEGISLATIVE MATERIAL** | 1 |
| | **ELECTRICAL TRAINING** | 1 |
| | **HUMAN REACTIONS TO EMERGENCY** | 1 |
| | **CONSUMER PRODUCT TAMPERING FOR ARSON** | 1 |
| | **SPOLIATION** | 1 |
| | **MORE & BETTER INTERROGATION SCHOOLS-CLASSES** | 1 |
| | **FIRE SPREAD** | 1 |
| | **TERRORIST GROUP ACTIVIES** | 1 |
| | **MORE COMPREHENSIVE RESEARCH ON FORCE I.E. BLAST WAVE** | 1 |
| | **FLASHOVER PATTERNS "POOR"?** | 1 |
| | **CHEMICAL WEOPONS & EFFECTS** | 1 |
| | **BETTER ACCESS TO LABS** | 1 |
| | **OVERPRESSURE INJURY** | 1 |
| | **COURT TESTIMONY** | 1 |
| | **ARSON PROFILING** | 1 |
| | **STATEMENT TAKING** | 1 |
| | **TYPE DEVICES EXPLOSION** | 1 |
| | **FLASHOVER EFFECTS** | 1 |
| | **MISTAKES MADE TO LEARN FROM** | 1 |
| | **TRAINING THE TRAINER** | 1 |
| | **POSTBLAST** | 1 |
| | **MOTIVES** | 1 |

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|---|---|---|
| | **COMPARATIVE LAB METHODS OF ACC DETECTION** | 1 |
| | **INTERVIEWING** | 1 |
| | **FASTER LAB RESULTS** | 1 |
| | **ELECTRICAL FIRE CAUSES - VEHICLE & STRUC** | 1 |
| | **INVOLVEMENT OF NATURAL GAS/PROP IN FIRE** | 1 |
| | **EXPLOSIVE ENTRY IN HOSTAGE RESCUE/PRISON** | 1 |
| | **AUTOMOBILE FIRE CAUSES** | 1 |
| | **EXPOSURE TO CONTAMINATION LONG TERM** | 1 |
| | **LIVE EXPLOSIVES DEMO-RESULTS** | 1 |
| | **REGIONAL TEAMS TO RESPOND TO MAJOR BOMB** | 1 |
| | **ELECTRICAL FIRE** | 1 |
| | **PIPE BOMB RESULTS OFTEN EXPLOSION** | 1 |
| | **PRE/POST BLAST** | 1 |
| | **TESTINGKITSIMILARDRUGKITS** | 1 |
| | **CERTIFICATION** | 1 |
| | **COMPONENT IDENTIFICATION** | 1 |
| | **PUBLISH DIPOLE MIGHT TEST INFO** | 1 |
| | **RECIPROCITY BTWN STATES FOR CERTIFICATIO** | 1 |
| | **HEAT TRANSFER** | 1 |
| | **USE OF TAGGANTS** | 1 |
| | **TAGGANTS** | 1 |
| | **NBC/WMD** | 1 |
| | **C.F.I. REQUIREMENT** | 1 |
| | **WMD MITIGATION SYSTEMS** | 1 |
| | **PROFILING** | 1 |
| | **COMPUTER** | 1 |
| | **r &d IN MITIGATION OF &ENTRY ITNO LARGE VEHICLE BOMBS** | 1 |
| | **LIGHTER BOMB SUIT** | 1 |
| | **PHOTOGRAPHY** | 1 |
| | **INCENDIARY DEVICES** | 1 |
| | **CHEMISTRY OF EXPL** | 1 |

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|---|---|---|
| | **MILITARTY ORDINANCE** | 1 |
| | **FIRE SPREAD IN MATERIALS** | 1 |
| | **POINT OF ORIGIN** | 1 |
| | **ANGLE OF "V" PATTERNS FOR FAST VS SLOW** | 1 |
| | **HEALTH HAZARDS EVALUATION FOR/ON FIRE INVESTIGATORS** | 1 |
| | **APPLIANCE-ELECTRICAL COMPONANT OVERHEATING** | 1 |
| | **ACCIDENTAL ELECTRICAL** | 1 |
| | **ACCELERANT DETERMINATION** | 1 |
| | **NEW BUILDING TECHNIQUES AND HOW THEY RESPOND TO FIRE** | 1 |
| | **TRAINING BOMB TECHS IN EXPLOSIVES INVEST** | 1 |
| | **INTERVIEWING INTERPOLATIONS** | 1 |
| | **DOCUMENT FIRE BEHAVIOR BY BURNING IDENTICAL UNITS IN DIFFERENT WAY** | 1 |
| | **HOMEMADE DEVICES** | 1 |
| | **VALIDITY OF K-9 USAGE FOR ACCELARENT DET** | 1 |
| | **COMPUTER PRE-SCENE RECONSTRUCTION** | 1 |
| | **FIRE BEHAVIOR IN MODERN VEHICLES** | 1 |
| | **FIRE DYNAMICS** | 1 |
| | **POST BLAST TRAINING** | 1 |
| | **SHAPE OF "V" PATTERNS** | 1 |
| | **BURN PATTERNS ON CONCRETE** | 1 |
| | **PLACING IDENTIFIABLE TRACE AGENTS IN ALCOHOL TYPE PRODUCTS THAT ARE COMMONLY USED AS ACCELERANTS** | 1 |
| | **BOMB SIGN ANALYSIS** | 1 |
| | **CRIME SCENE INV.** | 1 |
| | **BOBMING STATS FOR WORLD** | 1 |
| | **FUNDING SOURCES FOR EQUIPMENT** | 1 |
| | **FIRE MODELING** | 1 |
| | **POLICE VS FIRE RELATIONS** | 1 |
| | **INTERVIEW/INTERROGAT** | 1 |
| | **EXPLOSIVES** | 1 |
| | **WHAT PERCENTAGE OF EXPLOSIONS ARE ACCIDENTAL** | 1 |

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|---|---|---|
| | **UP-TO-DATE SCIENCE** | 1 |
| | **PROPER LAB PROTOCOLS** | 1 |
| | **RESPONSE TO LARGE EXPLOSIONS** | 1 |
| | **FIELD TESTING FOR EXCELLENCE** | 1 |
| | **WEB SITE STUFF** | 1 |
| | **HEAT EFFECTS TO PIPING CONNECTIONS** | 1 |
| | **FIRE DEATH INVESTIGATIONS** | 1 |
| | **CHEMICAL FIRES** | 1 |
| | **NATURAL INCLUDING LIGHTNING & SPONTANEOUS HEATING** | 1 |
| | **ORIGIN & CAUSE DETERMINATION** | 1 |
| | **ELECTRICAL FIRE ORIGIN &CAUSE** | 1 |
| | **TYPES OF EXPLOSIONS** | 1 |
| | **COMBINING STATE AND FEDERAL LAWS** | 1 |
| | **DRYER FIRE CAUSES** | 1 |
| | **ELDERLY FIRE CAUSE - ACCIDENT VS ARSON** | 1 |
| | **FIREWORKS RELATED FIRE NUMBERS** | 1 |
| | **SEMINARS/TRAINING** | 1 |
| | **MORE TEST FIRES** | 1 |
| | **FIRE PATTERNS** | 1 |
| | **STANDARDIZED CERTIFICATION REQUIREMENTS** | 1 |
| | **NAT'L CERTIFICATION THROUGH A GOV'T AGEN** | 1 |
| | **EXPLOSIVE ANALYSIS** | 1 |
| | **IMPACT OF GUIDELINES ON ORGANIZATIONS** | 1 |
| | **REFINED EVIDENCE COLLECTION TECHNIQUES** | 1 |
| | **JOB OPPORTUNITIES** | 1 |
| | **PIPE BOMB TESTING** | 1 |
| | **MINIMAL TRAINING (YEARLY) REQUIREMENTS** | 1 |
| | **SERIAL ARSON** | 1 |
| | **MORE HOME STUDY OCURSES TO OBTAIN DEGREE** | 1 |
| | **LEGAL ASPECTS** | 1 |
| | **BURN PATTERNS** | 1 |

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|---|---|---|
| | **TRAINING** | 1 |
| | **EXPLOSIVE INQUIRY** | 1 |
| | **DEVICE DATABASE** | 1 |
| | **INTERNET SECURITY** | 1 |
| | **BLAST DEVICE & MATERIAL SETTING IN FIELD** | 1 |
| | **JUVENILE FIRESETTERS** | 1 |
| | **BURN PATTERN DEVELOPMENT** | 1 |
| | **DISTANCE LEARNING** | 1 |
| | **DETAILED INTERVIEWS OF CONVICTED ARSONISTS** | 1 |
| | **FIRE SCENE CHECKLIST** | 1 |
| | **FULL SCALE EXPLOSION LABORATORIES (FOR INVESTIGATOR)** | 1 |
| | **HANDS ON ATER EXPOSION** | 1 |
| | **INFORMATION SHARING BETWEEN PUBLIC & PRIVATE SECTORS** | 1 |
| | **FIRE INVESTIGATION (ADVANCED)** | 1 |
| | **TRENDS & PATTERNS OF INCIDENTS/DEVICES** | 1 |
| | **DESTRUCTION OF COMMERCIAL EXPLOSIVES** | 1 |
| | **FULL SCALE TESTING** | 1 |
| | **EVIDENCE STORAGE** | 1 |
| | **BUILDING EXPLOSION** | 1 |
| | **ORIGIN & CAUSE** | 1 |
| | **NEW METHODS OF ACCELERANT PRESENCE AT SC** | 1 |

**Responses to Question 56c - Additional areas of research in fire and explosion invetigation that you would like to see explored:**

| | **Responses** | **N** |
|---|---|---|
| | **FUNDING FOR SMALL AGY FOR EQUIPMENT** | 1 |
| | **FIRE DYNAMICS** | 1 |
| | **COMPILE LIST OF FINANCIAL DATABASES THAT ARE AVAILABLE** | 1 |
| | **APPLIANCE FIRES** | 1 |
| | **MORECANINERESEARCH** | 1 |
| | **EXPLOSIVE DEVICES** | 1 |
| | **STANDARDIZED CONTAMINATION PROTOCOLS** | 1 |

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|---|---|---|
| | **COMBUSTABLE PROPERTIES ON MATERIALS** | 1 |
| | **OTHER CONTAINERS W/POWDERS THAT EXP** | 1 |
| | **LAB HANDS ON & CERTIFIED PHOTO LAB** | 1 |
| | **BOMBER PROFILES** | 1 |
| | **CRIME SCENE PROCEDURES** | 1 |
| | **BETTER & INEXPENSIVE TECH FOR SCENE** | 1 |
| | **TERRORISM (OSP. SMALL ACTS)** | 1 |
| | **EVIDENCE CONTAINERS** | 1 |
| | **RENDER SAFE GUIDELINES** | 1 |
| | **DETECTION DEVICES FOR EVIDENCE SAMP** | 1 |
| | **IGNITION ENERGIES** | 1 |
| | **EVIDENCECOLLECTION** | 1 |
| | **STRESS MANAGEMENT** | 1 |
| | **FIRE MODELING** | 1 |
| | **VEHICLE FIRES** | 1 |
| | **QUALIFIED INV. - LIKE DR. DEHANN** | 1 |
| | **VEHICLE** | 1 |
| | **INTERVIEW AND INTERROGATION** | 1 |
| | **SPONTANEOUS COMBUSTION** | 1 |
| | **IMP IN TIME RESPONSE OF PRIM INVEST** | 1 |
| | **INTERVIEW/INTERROGATION** | 1 |
| | **CROSS CONTAMINATION** | 1 |
| | **INTERVIEWS, INTERROGATIONS** | 1 |
| | **EFFECT OF BLDG CONST ON FIRE SPREAD** | 1 |
| | **WILDLAND FIRE INVESTIGATIONS** | 1 |
| | **LISTINGS OF FITNESS REQUIREMENTS NATIONALLY** | 1 |
| | **STANDARDIZED TRAINING REQUIRED AFTER CERTIFICATION** | 1 |
| | **ELECTRICAL FIRE INVESTIGATION** | 1 |
| | **INDIVIDUAL AND SMALL GROUP INVESTIGATION TEAMS** | 1 |
| | **CD-ROM INTERACTIVE PROGRAM** | 1 |
| | **VARIOUS ELECTRICAL FIRES** | 1 |

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|---|---|---|
| | **TWO WEEK BOMB SCHOOL** | 1 |
| | **BUILDING CONSTRUCTION** | 1 |
| | **FIRE SCENCE INVESTIGATION** | 1 |
| | **CHILDREN & FIRES** | 1 |
| | **VIDEO TRAINING** | 1 |
| | **POST BLAST** | 1 |
| | **FIRES FROM ELECTRICAL INDUCTION** | 1 |
| | **TRENDS IN ACC USE & DOCUMENTATION** | 1 |
| | **COURT TESTIMONY** | 1 |
| | **UPDATES ON RECENT COURT CASES** | 1 |
| | **AIRCRAFT & STRUCTURE HARDENING** | 1 |
| | **TIME FUEL TEMP RELATIONSHIP** | 1 |
| | **EDUCATION SEMINARS** | 1 |
| | **POST BLAST COMPONENT ID** | 1 |
| | **BOOBY TRAPS** | 1 |
| | **ELECTRICAL FIRES** | 1 |
| | **RECONSTR. OF BOMB SC** | 1 |
| | **LINK ANALYSIS** | 1 |
| | **TASK FORCE/NETWORKING** | 1 |
| | **STANDARDIZED TRAINING** | 1 |
| | **FACILITY FIRE** | 1 |
| | **EXPLOSIVES FROM TERRORIST ACTIVITIES** | 1 |
| | **CERTIFICATION AVAILABILITY** | 1 |
| | **UNIFIED CERTIFICATION** | 1 |
| | **PROFILES ON ARSONIST AND BOMB MAKERS** | 1 |
| | **POST BLAST EVIDENCE AT SCENCE** | 1 |
| | **TRAINING WITH ATF** | 1 |
| | **EVIDENCE COLLECTION** | 1 |
| | **IMPROVISED EXPLOSIVE DEVICES** | 1 |
| | **MILITARY DATABASE** | 1 |
| | **UNIVERSITY FIRE CAUSE & DYNAMICS** | 1 |

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|---|---|---|
| | **LIST OF APPROPRIATE LABS TO SEND EVIDENCE FOR ANALYSIS** | 1 |
| | **TIME DELAY DEVICES** | 1 |
| | **FIRE INVESTIGATION (CERTIFYING)** | 1 |
| | **BURNTIMES** | 1 |
| | **DEVICE DETECTION** | 1 |
| | **FUNDING/ UP TO DATE TOOLS/EQUIP** | 1 |
| | **EVIDENCE TRANSPORT** | 1 |
| | **NEW METHODS FOR COLLECTION OF LATENT PRINT AND ACCELERANT RESIDUE (AND ANALYSES OF SAME)AT FIRE SCEN** | 1 |
| | **DEBRIS SAMPLE COLLECTION** | 1 |
| | **INDUSTRY EXPERT TESTIMONY** | 1 |
| | **DATABASE OF ALL BOMBERS/ARSONISTS** | 1 |
| | **INTRO OF A TRACE ELE** | 1 |
| | **ARSONIST PROFILING** | 1 |
| | **BETTER METHODS FOR FIELD TESTING FOR PRESENCE OF ACCELERANTS** | 1 |
| | **WEAPONS OF MASS DESTRUCTION-EMPHASIS ON SAFETY** | 1 |
| | **MORE TEST EXPLOSION** | 1 |
| | **AIRCRAFT FIRES (NON-CRASH RELATED)** | 1 |
| | **FIRE SCENCE CONTROL BURNS** | 1 |
| | **MONITORED REAL-LIFE BURN SITUATIONS** | 1 |
| | **EXPLOSION CHEMISTRY** | 1 |
| | **PROS OF ARSON CASES FOR EXPL INVEST** | 1 |
| | **IN DEPTH EDUCATIONAL PROGRAMS** | 1 |
| | **PRODUCT IDENTIFICATION** | 1 |
| | **POST BLAST INVESTIGATION** | 1 |
| | **PSYCHOLOGICAL EFFECT ON INVESTIGATIORS** | 1 |
| | **ID TYPE FUELS** | 1 |
| | **MONTHLY TRAINING FOR BOMB SQUADS** | 1 |
| | **CONTINUE ON DYNAMICS & PUBLISH BURN RESULTS** | 1 |
| | **IGNITABLE LIQ FIRES IN STRUCTURES** | 1 |
| | **DUST PARTICLE TRACKING IN EXPLOSION** | 1 |

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|---|---|---|
| | **BIOLOGICAL WEAPONS & EFFECTS** | 1 |
| | **DIGITAL CAMERAS** | 1 |
| | **FUNDING SOURCES FOR TRAINING** | 1 |
| | **STIFFER PENALTIES** | 1 |
| | **INTERVIEWING TECHNIQUES** | 1 |
| | **LARGE VEHICLE BOMB BLAST INVES** | 1 |
| | **NATIONAL TRAINING RESOURCES** | 1 |
| | **LATENT PRINTING OF EXPLOSIVES EVIDENCE** | 1 |
| | **ARSON CONTROL ISSUES** | 1 |
| | **IGNITABLE RESIDUE** | 1 |
| | **MATERIAL TESTING** | 1 |