



Data Analysis & Presentation for Fire and EMS (Using Microsoft Excel™)

A Class for Fire Service Personnel with Responsibilities in Deployment Analysis,
Data Presentation, and Resource Planning



Hosted by
Frederick-Firestone FPD
8426 Kosmerl Place,
Frederick, CO 80504

Date and Time
Sept. 24-26, 2024
08:30–16:30

Participation Fee
\$600

Course Description

This three-day hands-on course is designed to give fire and EMS personnel a comprehensive understanding of the most commonly used analytic and statistical tools available for performance measurement and reporting. The course will prepare the attendee for making better and more defensible policies and presentations on department operations and long-term planning. The class includes instruction in basic and intermediate-level Microsoft Excel and does not require any prior experience with Excel (although some proficiency is strongly recommended.)

Some Things You Will Learn In This Class

- ★ An introduction to statistics for Fire and EMS (without the difficult math)
- ★ Use of Excel for analyzing Fire and EMS operations-related data
- ★ Visual representations (tables and graphs,) which to use and when
- ★ Understanding the special considerations with small data
- ★ Best practices in Fire and EMS data quality
- ★ Methods for setting realistic performance objectives
- ★ Methods for consistently identifying and handling outliers in data
- ★ Methods for calculating effective response force and unit concentrations
- ★ Understanding and calculating percentiles and NFPA compliance rates
- ★ Methods for evaluating units' order of arrival at scene, unit and system reliability
- ★ Understanding the basics of correlation & relationships between variables
- ★ Pivot tables, filtering, sorting and summarizing
- ★ Methods and best practices for use of statistics in fire service performance measurements

Materials Required

Laptop computer with MS Excel

Prior Experience and Knowledge Required

No statistics, advanced mathematics or Excel experience is required. A basic familiarity and comfort with computers is essential, however.

Materials Provided

- ✓ All class data sets will be provided electronically in advance of the class
- ✓ Anthology of relevant writings on performance measurement in the fire service
- ✓ Access to video recoded evolutions of much of what is covered in the class

Course Format

Each class has a maximum of 20 students. The course includes lecture, demonstration, and hands-on application.

Registration Process

Registration and payment information can be found by clicking on the ↓ Register button at the bottom of this page.

REGISTER NOW





Paul Rottenberg
MBA, MPH

Course Instructor

Paul Rottenberg is the president of FireStats, LLC., a management consulting firm providing analysis and support to fire departments throughout the United States. Paul has an MBA from the University of San Francisco and a Master's in Public Health from UCLA and has worked for public and private entities in financial and operations analysis for over 25 years. Paul is the sole creator and instructor of all FireStats curriculum and has taught his classes to over 3,000 fire officers throughout the US. FireStats has worked on hundreds of fire department analysis projects including standards of cover, accreditation, strategic plans, EMS QI, and customized statistical and probabilistic analyses in support of engine and ambulance deployment and staffing models. Paul spent ten years as an active paid-call engineer/EMT with a combination fire department in Northern California and is a USFA subject matter expert in deployment analysis.

Select Testimonials

"I went to the class expecting a useful but dry and generic statistics presentation and analysis class. Instead, the class was useful informative and entertaining. The instructor used real world fire service examples and provided insight into data analysis and seeing through bias in reporting. This combined with the tips and tricks on how to use Excel make this an exceptionally beneficial class. I can't recommend this class opportunity highly enough."

**Lee Barnes, Assistant Chief,
Operations, Queen Creek Fire and
Medical**

"Paul did a great job in presenting the material in class. He was very attentive to the students' needs and would stop instructing to give students the personal, one on one attention needed if they got lost during the presentation of material just so they could keep up. Very good class if you need to interpret data for your senior leadership. Paul, keep up the good work!"

**Bruce Fullenlove, Assistant Fire
Chief, Ft. Detrick Fire & Emergency
Services**

"This class is a must for both Staff and Chief Officers! Paul definitely changed the way I review, input, and interpret data. I have used several of my new skills to improve training reports to payroll analysis reports. The class was well worth it, and we look forward to hosting another one for the rest of our officers in the future."

**Eric Carlson, Battalion Chief, Lake
Travis Fire Rescue, Lake Travis,
Texas**

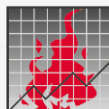
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FireStats

DATA ANALYSIS FOR
THE FIRE SERVICE



Contact:

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