Safety Data and Analysis Fundamentals
FHWA-NHI-380122 A-D

This Web-based training helps transportation professionals understand safety data and collection methods. The course teaches you how to interpret and use data to support key decision-making efforts.

Data management has not always kept up with the need of the latest safety analysis tools and methodologies. In this training, you will learn to identify weaknesses and strengthen the way safety data is used in their programs, projects, and communities. By studying the data analysis process, participants gain the knowledge of key safety data types and terms with additional insights to sources and collection methods of safety data.

This course is tailored to the participant’s individual goal and/or role within an organization, by enrolling in one of the four tracks most closely matching their personal goals and responsibilities.

Here’s a closer look at each course track:
Safety Data and Analysis Fundamentals Training for DATA ANALYSTS
For professionals in charge of integrating and analyzing datasets, including highway safety engineers, specialists, traffic engineers, highway designers, and technical analysts. Emphasizes the applicability, uses, strengths, limitations, and requirements of safety data and collection methods. Recommended for anyone whose responsibility is to analyze safety data to identify causes and potential patterns that contribute to crashes and other systemic safety issues.

Safety Data and Analysis Fundamentals Training for DATA COLLECTORS/STEWARDS
For professionals who are responsible for collecting, coding, and managing data to support safety analysis and decision-making. Emphasizes ways data collectors meet the needs of data analysts and helps collectors understand how managers use data to make strategic, informed decisions about safety priorities. Recommended for law enforcement officers, emergency medical service providers, trauma registrars, driver and vehicle service clerks, roadway data collectors, and anyone responsible for collecting crash, traffic, roadway, behavioral, injury, or other safety data.

Safety Data and Analysis Fundamentals Training for PROJECT & PROGRAM MANAGERS
For transportation professionals responsible for using safety analytics to identify and prioritize safety issues, develop and implement safety countermeasures, and evaluate project/program effectiveness. Emphasis on the tradeoffs of project alternatives in terms of cost and benefits, including the safety impacts of the project/program as well as the individual components. Recommended for transportation planners, traffic records coordinating committee members, highway safety online directors, and State and local mid-level managers such as division and district program managers in highway safety, design, traffic engineering, enforcement, and public health.

Safety Data and Analysis Fundamentals Training for SENIOR MANAGERS & SAFETY ADVOCATES
For anyone looking to bridge the gap between the public and practitioners, and who are responsible for developing or influencing policies, practices, setting budgets, allocating resources, and making safety investments. Emphasis on understanding the needs of data collectors, data managers, and data analysts in terms of equipment, human resources, and organizational structure. Recommended for State and local senior managers, such as division heads/chief of transportation, planning, civil engineering, and public health.

Learn More

National Highway Institute, Federal Highway Administration
1310 North Courthouse Road, Suite 300, Arlington, VA 22201

703.235.0500  |  877.558.6873
web www.nhi.fhwa.dot.gov
e-mail nhicustomerservice@dot.gov