Course: Human Factors and Road Safety

Length: 2 to 3 hours.

Target Audience: This course is targeted towards Highway Engineers and Technicians that plan, design, construct and maintain rural or urban road and street infrastructure. It will also be of interest to highway administrators, toll-road administrators, road safety specialists, university professors and highway engineering students in their final year of study. This very short course may be of interest as a complement to those that organize road safety congresses or trade shows with a focus on road safety.

Instructor: Greg Speier, Civil Engineer, Highway Safety Specialist.

Objectives: This course takes a look at how road users react with roadway elements. It considers the physical factors and limitations of road users and how roadway elements and traffic control devices can be modified to take into account road user limitations for improved road safety.

Course Agenda:
- Definition of human factors
- Differences between drivers
- Visual impairments
- Factors affecting driver performance
- Perception and priority of information
- Speed concepts
- The driving task
- Concepts and implications of memory
- Process of visualization
- Visibility and readability of vertical signs
- Nighttime visibility
- Fluorescent materials
- Variable message signs
- Driver expectations
- Reaction time
- Lighting and nighttime visualization
**Presentation Methodology:** The course will be presented using Microsoft PowerPoint with animations and numerous video clips to help the student understand the concepts. Student understanding will be confirmed throughout the course by a series of questions from the instructor and with mini workshops where the students will have a chance to interact on specific topics.

**Handouts:** Speier Road Safety Solutions Ltda will provide the client with an electronic folder containing the PowerPoint slides in PDF format, most of the videos shown in the course and with other related information. The PowerPoint slides will be viewable but printing will be restricted. The electronic folder can be copied to each participant.

**Cost:** Single fee of USD 500 per presentation plus transport (Including transport time), meals and hotel. National and local taxes must be paid by the client.

**Terms:** The client will arrange for the classroom, coffee breaks and student meals (if so desired), projection equipment and sound systems. The instructor will provide a laptop computer from which to present the course and other training aids as appropriate.