

# TRAFFIC ENGINEERING

## Objective:

This session will provide introductory information on the occupations that involve traffic engineering and traffic operations. Specific information will be provided on pavement markings, traffic control and information signs and traffic signals. (8 hours)

- I. Instructor Introduction
- II. Handout – Traffic Information Program Series
- III. Handout – General Provisions – MUTCD
- IV. Handout – Minimum Width of Clear Zone – discussion
- V. Handout – Uniform Traffic Control Devices
  - A. Color Code
  - B. Signs
- VI. Pavement Markings
  - A. Longitudinal line
  - B. Transverse markings
    - 1. Stop Bar
    - 2. Pavement Arrows
  - C. Paints
    - 1. Cold paint durability one year
    - 2. Hot paint durability one year
    - 3. Paint colors – white, yellow and black
    - 4. 40 ft. cycle – 30 ft. painted and 10 ft. skipped
    - 5. Thermoplastic paint durability six years
- VII. Handouts
  - A. Selecting Marking Materials and Equipment
  - B. How to Use Marking Effectively
- VIII. Field trip to signal and sign shops
- IX. Traffic Signal
  - A. Fixed cycle
  - B. Loop Detectors

- C. Pushbutton Detector
- X. Traffic Engineering
  - A. Job Titles
  - B. Wages
- XI. Review
  - A. Questions and Answers
  - B. Written Test

Name \_\_\_\_\_ Date \_\_\_\_\_

### Traffic Engineering

What are some of the main goals for transportation engineering?

1. Safe, economical
2. Fast, cheap
3. Pretty, clean
4. None of the above.

How many MUTCD are there in print?

1. Not enough.
2. 1 million
3. 3 million
4. None of the above.

What is the purpose of the Manual on Uniform Traffic Control Devices?

1. To provide guidance to achieve uniformity.
2. To assist lawyers in trip you up.
3. To make it difficult to install traffic control devices
4. None of the above

Sign supports shall be:

1. Of sufficient strength to withstand impacts.
2. Be round in shape.
3. Mounted 10 feet from the edge of the pavement.
4. None of the above

Work zones \_\_\_\_\_.

1. Are a nuisance.
2. Should be taken down when not applicable.
3. Provide a good practice course for drivng.
4. None of the above.