

Traffic Signals Workshop

Sponsored by Maine Local Roads Center

A Cooperative Program by -Maine Department of Transportation and Federal Highway Administration

All Classes will be held at Electric Light Company, Inc. in Cape Neddick

Basic Traffic Signal Theory and operation:

This workshop will address the practical use and operation of all traffic signal equipment.

Highlights include:

- **Theory of traffic signal operation and design**
- **Traffic control components and how they work**
- **Basic Circuitry, Fault Identification and Maintenance**

The familiarization of traffic signal components and how they operate as a system will be emphasized. All equipment is shown in a hands on manner, with operating displays and practical demonstrations. This will be a visual class for everyone, especially for the department manager, safety administrator, or the new municipal technician.

NEMA TS2 Traffic Controller Programming and Operation

This class is an intermediate technical class.

Highlights include:

- **Advanced features and functions of NEMA TS2 control equipment**
- **Set up and Programming and Operation**
- **Design considerations and practical applications**

The newest NEMA TS2 control equipment will be demonstrated. Capabilities, programming, operational standards and design requirements of this equipment will be discussed and displayed. This class is recommended for traffic technicians and engineers to get familiar with TS2, as the new standard of traffic control equipment .

Optical Pre-emption/Video Detection

This two-part class is for any agency contemplating upgrading vehicle detection to handle increased traffic volumes efficiently and economically, or to safely improve emergency response times. Public safety officials, traffic engineers and technicians will have demonstrations on how to get the best operation out of their signal systems using both normal and priority detection.

The first class will cover Priority Optical Emergency Pre-emption. System features, software and hardware integration with traffic controllers will be reviewed. Operational considerations, set up and installation variables will be demonstrated.

the next class will cover the most recent form of standard detection for vehicles. Video vehicle detection, design, cost effectiveness, installation and use at a fully actuated signalized intersection will be discussed and demonstrated.