

PREREQUISITE: INTRODUCTION TO PUBLIC WORKS

GRADING METHOD: Instructors choice Grade or Pass/No Pass.

COURSE DESCRIPTION (12 week course)

This course provides a greater awareness and appreciation of the unique design, installation, and maintenance techniques required for the proper control and regulation of traffic according to the Manual on Uniform Traffic Control Devices (MUTCD). For public works personnel.

COURSE CONTENT

I. Introduction

II. Roadway Signing

Application? uniform traffic control devices

Height

Setbacks

D.Spacing

Combinations

Posts and foundations

1. iron

2. Wood

aluminum

concrete

Records

Sign proliferation

Sign vs. curb painting

Sequence of installation

Sign purchasing? Color standardization

III. Striping and Markings

A. Engineering

Reflectorized and ceramic buttons

Application of stripes and markings

Standards

Curbs

IV. Traffic Control Barricading

Specifications

Safety standards

Enforcement

Liability

~. OSHA regulations

V. Parking Lots

Signing

Striping

Markings

Bumpers

Records

Engineering

VI. Traffic Signal Equipment

A. Detectors

Inductive loops

Pressure pads

VII. Organization

Advantages

Disadvantages

Authority

Sub-groups

Policies

Training

VIII. Safety

A. Safety committee

Award and recognition

Performance programs

Equipment

IX. Cost Estimating, Purchasing, and Budgeting

Equipment catalog library

Rapport

C. Inventory Control

D. Budget requests

STUDENT LEARNING OUTCOMES

Upon completion of this course, students will be able to do the following:

1. Communication (personal expression and information acquisition)

Discipline/Subject Area Specific Content Material Information competency

OUTCOME: differentiate among the various roadway signage, markings, and temporary traffic controls and determine their proper usage, on written assignments and examinations, as required by Manual on Uniform Traffic Control Devices mandates

OUTCOME: describe internationally accepted signs and signaling devices and their applications to local communities, according to industry standards, on written assignments and examinations

OUTCOME: demonstrate, through written assignments, the current standard requirements for common public safety as it relates to traffic control devices

OUTCOME: demonstrate, through oral presentation, traffic control flagging as required by the Manual on Uniform Traffic Control Devices mandates

OBJECTIVES

1. Pass a comprehensive exam covering roadway signing as presented in simulated situations

2. Describe internationally accepted signs and signaling devices and their application to local communities

explain common public safety as it relates to traffic control devices

perform a cost estimating, planning and budgeting exercise

explain standard stripings and markings used in traffic control

METHODS OF EVALUATION/ASSESSMENT

**Typical classroom assessment techniques
required assignments**

REQUIRED TEXTS AND MATERIALS

Required

State Traffic Manual, 2005, State of California/Arizona Department of Transportation
Outside Assignments