Procurement & Supply Chain Operations

Mastering Traffic Enforcement Administration & Maintenance: Effective Management, Policies & Trouble

Course Introduction

This 5-day training program is designed to equip traffic enforcement managers with the key knowledge and skills to effectively manage the policies and procedures, preventive maintenance, inventory, and troubleshooting.

The program blends theory with hands-on practical activities and case studies to ensure managers can apply their learning to real-world challenges, improving the effectiveness and longevity of traffic enforcement systems.

Target Audience

Engineering & Operations Managers

Project & Program Managers

Senior Executives & Directors

Industrial & Systems Engineers

Energy, Construction & Manufacturing Leaders

Government & Regulatory Officials

Technology & Smart Infrastructure Professionals

Learning Objectives

- Develop, implement, and enforce maintenance policies for traffic enforcement equipment.
- Understand the importance of compliance with policies and procedures in maintaining system reliability.
- Conduct routine inspections, preventive maintenance, and testing for traffic enforcement systems and devices.

- Understand the impact of proper preventive maintenance on the efficiency and longevity of enforcement equipment.
- Oversee and control inventory management for maintenance supplies and equipment.
- Use inventory systems to track spare parts, tools, and materials needed for ongoing operations.
- Identify common failures in traffic enforcement systems and develop strategies for troubleshooting.
- Understand problem-solving techniques to address and resolve issues quickly, minimizing service interruptions.

Course Outline

- **Day 01**

Introduction to Traffic Enforcement Administration & Maintenance

- ◦ Overview of traffic enforcement systems and their components
- ◦ The role of managers in traffic enforcement maintenance
- ◦ The relationship between traffic enforcement systems and road safety
- ◦ Importance of proactive maintenance
- ◦ Case studies on enforcement failures and the impact on traffic safety

Maintenance Policies & Procedures

- ◦ The significance of maintenance policies in traffic enforcement
- ◦ Key components of effective maintenance procedures
- ◦ Creating maintenance schedules and checklists for enforcement devices
- ◦ Understanding regulatory compliance and safety standards
- ◦ **Group exercise:** Reviewing a case study and drafting maintenance procedures

- **Day 02**

  Preventive Maintenance - Concept and Best Practices

  - ◦ Preventive maintenance vs. reactive maintenance
  - ◦ Types of preventive maintenance tasks (e.g., inspection, lubrication, calibration)
  - ◦ Best practices for preventive maintenance of enforcement systems
  - ◦ Scheduling and tracking preventive maintenance activities
  - ◦ **Workshop:** Developing a preventive maintenance plan for a specific traffic enforcement device

  Preventive Maintenance - Testing and Calibration

  - ◦ The importance of testing and calibration in enforcement equipment
  - ◦ Methods for testing traffic enforcement devices
  - ◦ Calibration standards and tolerances for equipment (e.g., speed cameras, traffic signal controllers)
  - ◦ Documentation and record-keeping for tests and calibrations
  - ◦ Hands-on testing and calibration exercises with mock devices

- **Day 03**

  Inventory Management for Maintenance

  - ◦ Principles of inventory management for maintenance operations
  - ◦ Tools and systems for inventory tracking (manual and digital)
  - ◦ Managing spare parts, tools, and supplies for traffic enforcement systems
  - ◦ Reordering processes and supplier relationships
  - ◦ Workshop: Creating an inventory system for a mock traffic enforcement department

Inventory Control Techniques

- ○ Techniques for controlling inventory to reduce waste and shortages
- ○ Stock levels and reorder points for critical maintenance supplies
- ○ How to track and monitor usage of maintenance materials
- ○ Managing emergency inventory for urgent repairs
- ○ Hands-on inventory control simulation: Managing stock for a traffic enforcement department

• **Day 04**

Troubleshooting Basics

- ○ Understanding the role of troubleshooting in traffic enforcement system maintenance
- ○ Common issues in traffic enforcement equipment.
- ○ Step-by-step troubleshooting techniques
- ○ Identifying root causes and implementing corrective actions
- ○ Group-based troubleshooting scenarios with mock traffic enforcement systems

Advanced Troubleshooting Techniques

- ○ Advanced diagnostic tools and techniques for traffic enforcement equipment
- ○ Use of software and technical manuals in troubleshooting
- ○ Troubleshooting electronic and mechanical issues in enforcement systems
- ○ When to escalate issues to external vendors or specialists
- ○ **Group activity:** Solving an advanced troubleshooting case

• **Day 05**

Integrating Maintenance, Inventory & Troubleshooting Strategies

- ○ How to integrate preventive maintenance, inventory management, and troubleshooting processes

- ◦ Developing a unified strategy for efficient traffic enforcement system management
- ◦ Coordinating maintenance schedules with inventory needs
- ◦ Building a proactive maintenance culture within the team
- ◦ **Workshop:** Creating a comprehensive traffic enforcement management plan

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 20, 2025	April 24, 2025	5 days	4250.00 $	KSA - Riyadh
June 15, 2025	June 19, 2025	5 days	2150.00 $	Virtual - Online
July 28, 2025	Aug. 1, 2025	5 days	4250.00 $	UAE - Dubai
Nov. 17, 2025	Nov. 21, 2025	5 days	5950.00 $	switzerland - Geneva