

WELCOME TO OUR LEARNING CENTRE

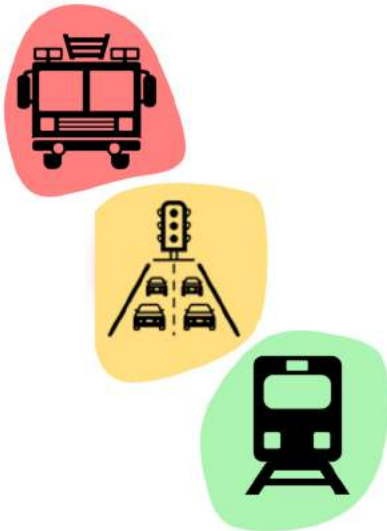
TRAFFIC SIGNAL CONTROLLER LEARNING PROGRAMS



TRAFFIC SIGNAL PREEMPTION COURSE



This course is designed to help equip traffic management, operations, and maintenance personnel with the knowledge necessary to implement and manage traffic signal preemption systems effectively.



***“Roadmap Your Success with Our
Intelligent Transportation Systems Learning Courses!”***



DELIVERED IN ASSOCIATION WITH
IMSA ONTARIO TRILLIUM SECTION



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Traffic Signal Controller Functionality – Program Learning

Traffic Signal Pre-emption Course

COURSE OVERVIEW

Traffic signal pre-emption is a critical aspect of traffic management systems. Its objectives are:

- Provide for the safety of roadway uses at grade-level railway crossings
- Allow emergency vehicles and other high priority vehicles to navigate traffic signals efficiently and safely

This training course is designed to equip traffic management, operations, and maintenance personnel with the knowledge necessary to implement and manage traffic signal pre-emption systems effectively.

COURSE OBJECTIVES

- Understand the principles and benefits of traffic signal pre-emption
- Learn about the different types of pre-emption systems and their components
- Highlight the legal and regulatory aspects of traffic signal pre-emption
- Gain insight into the considerations for implementing pre-emption systems
- Understand the operational challenges associated with pre-emption
- Learn about emerging technologies and future trends in traffic signal pre-emption

COURSE OUTLINE

Lesson 1: Introduction to Traffic Signal Pre-emption

- Definition and purpose of traffic signal pre-emption
- Historical context and evolution of pre-emption systems
- Benefits and challenges of implementing pre-emption

Lesson 2: Types of Pre-emption Systems

- Overview of vehicle pre-emption systems
- Integration with traffic signal controllers and management systems

Lesson 3: Legal and Regulatory Considerations

- Overview of liability issues

Lesson 4: Emerging Technologies and Future Trends

- Innovations in pre-emption system technology

DELIVERY METHOD

- In-Class Room

TARGET AUDIENCE

- Traffic Management Professionals
- Traffic Consultants and Contractors involved in Traffic Signal Operations
- Emergency Responders

DURATION

- Approx 2 hours