



Michigan Section

INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION



*The Leading International Resource for
Information, Education and Certification for Public Safety*

Total Advancement Recognition Points (TARP) for IMSA Recertification/Renewal All Courses Offered by Carrier & Gable, Inc., Farmington Hills, Michigan

Visit www.CarrierGable.com for registration.

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EPIC140 Pretimed Controller, Advanced – 128 TARP points applies to Traffic Signals

This course is designed for individuals who have an understanding of the basic operation of this controller and are interested in some of the more advanced features available in EPIC140. A two-day course, it is intended to familiarize the student with the advanced controller unit data entries necessary in many of today's more complex signalized intersections. Topics include: advanced coordination and time base data entries, preemption data, multiple signal plans, actuated control data, and systems data. This is a combination lecture and hands-on workshop.

Prerequisite: EPIC140 Beginner Course or equiv. field experience.

Flashing Yellow Arrow Seminar - 64 TARP points applies to Traffic Signals

The FHWA and MDOT are recommending the use of the Flashing Yellow Arrow (FYA) signal for protected/permissive movements in place of the Flashing Red signal as previously used in the State of Michigan. This one-day seminar discusses the control cabinet considerations related to the FYA implementation. Discussed will be the changes necessary in the terminal facility, the controller unit software, and special emphasis will be given to the monitor in the control cabinet utilized to support the FYA operation.

Prerequisite: None.

MARC NX Software Seminar - 64 TARP points applies to Traffic Signals

This one-day seminar will cover the software features of the closed loop MARC NX. Set up and installation of the software onto computers will be followed by demonstration of the capabilities and functions of the software. It is recommended that students bring their laptops to class to participate in the programming functions. The instructor will upgrade existing MARC NX users to the latest software release.

Prerequisite: EPAC, EPIC Beginner

Backup Power for Signals, Controls & Communications - 64 TARP points applies to Traffic Signals

This is a one day seminar on the effects of reliable power to maintain Signal Controls and ITS systems. The CRITICAL difference between Battery Backup systems and True Real-Time Uninterruptible Power-Conditioning Systems will be discussed. See and understand applications and what they really mean to increased uptime, lower operational costs, as well as markedly increased reliability of operational systems. This is a lecture course. A representative of the manufacturer will be conducting this seminar.

Prerequisite: None.

Energy Conservation in Transportation - 64 TARP points applies to Traffic Signals

This is a one day seminar on the latest energy conserving technologies being utilized in traffic control. Included will be a presentation on solar power for continuously operating warning beacons, remote radio controlled warning beacons, and solar engines for power of other traffic/ITS applications. The current status of the ITE LED signal specification will also be analyzed. Additionally, the use of low power LEDs for street lighting, illuminated signage, and other lighting applications will be reviewed. This is a lecture course

Prerequisite: None.



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Winter Weather Workshop - 64 TARP points applies to MTR, S&M and Traffic Signals

The one day Winter Weather Workshops are designed for students interested in managing roadway surface conditions. Information will be provided on pavement condition forecasting, equipment and systems to obtain weather information and tools to better manage roadway conditions, manpower and budgeting of resources. Representatives from Surface Systems, Inc. (SSI) will conduct the workshop. This is a lecture course.

Prerequisite: None.

Loop Detection Seminar - 64 TARP points applies to Traffic Signals

This one-day class will examine issues related to vehicle loop detection. Emphasis will be on the new EDI Oracle Intelligent Loop Monitor. Detector unit topics include system features, setup, and trouble shooting. Additionally, theory of operation and system design will be discussed. This is a lecture course.

Prerequisite: None

Networking in the Transportation Industry - 64 TARP points applies to Traffic Signals

With advances in technology, Ethernet has become the protocol of choice for traffic control, video surveillance and other ITS applications. This is a one day seminar that will explain how to take advantage of this technology that is now commonly integrated in to traffic controllers, cameras, and detection systems. This seminar is intended for those with little to no knowledge of Ethernet technology and will include discussions on protocols, switches, routers, and convertors. This is a lecture course, although students are encouraged to bring their laptop computers. A representative of the manufacturer will be conducting this seminar.

Prerequisite: None.

Accessible Pedestrian System - 64 TARP points applies to Traffic Signals

This one-day session will familiarize the student with functions and operations of accessible pedestrian pushbutton systems. Requirements of the MUTCD for operation and location of accessible pedestrian systems will be discussed. Installation and set ups of the systems will be presented. This is a lecture seminar and will be conducted by a representative from Polara Engineering.

Prerequisite: None