

Health & Safety Training

AT MACOMB COMMUNITY COLLEGE



Comprehensive industrial compliance
and emergency response programs
for individuals, businesses and municipalities



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About the Training Center



Macomb's Emergency Services Training Center at East Campus provides a comprehensive array of programs and instruction for individuals, companies and municipal agencies responsible for the safety functions related to industrial compliance and emergency response services.

Our programs and seminars are developed to meet the training requirements of OSHA, D.O.T., MIOSHA, NFPA, ISFSI, and other regulatory organizations.

The Center, located in Clinton Township on Dunham Road, is a 20-acre complex that includes:

- Mediated classrooms
- Multi-purpose areas, computer lab, scenario room
- Confined Space training structures
- A five-story training tower with two (2) Live Fire burn rooms
- A 400 sq. ft. Live Fire burn pad
- Live Fire burning mock-ups (vehicle, dumpster, small spill)
- Portable Live Fire extinguisher training device
- Search and Rescue/multi-scenario building

The Live Fire tower utilizes propane for the realistic, yet environmentally clean, simulation of fire and industrial emergencies. Use of the tower facilitates training in a wide variety of compliance and emergency response topics providing realistic and valuable hands-on opportunities.

Curriculum is established and reviewed by an advisory board made up of representatives from business, industry, emergency services, and education.

How to Contact:

Health & Safety Training
Macomb Emergency Services Training
Center at East Campus
21901 Dunham Road
Clinton Twp., MI 48036

Offices:
586.498.4055, Room 118

Fax:
586.498.4058

Internet:
hst@macomb.edu

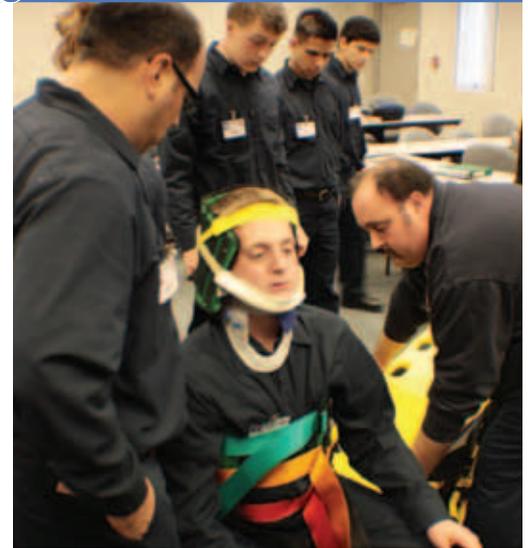
Business Hours:
Monday–Friday, 8:00 am–4:30 pm

Macomb's Health & Safety Training is prepared to custom design, plan and conduct a high-quality training experience to meet our client's individual needs. Scheduling is flexible and designed to accommodate your convenience, including shift work, and weekends. Scheduling is further enhanced by your option to have programs delivered at your location or ours (we have traveled throughout the United States and Mexico).

We are further prepared to offer consultation services to help determine your compliance needs and establish a training curriculum that addresses those needs. We will then conduct the course that has been formulated utilizing instructors with both expertise and experience in the specific content area.

For additional information, please call:

Health & Safety Training at 586.498.4055



Health & Safety Training

Health and Safety Managers from a wide range of successful companies and dynamic municipalities look to us for quality training at a reasonable cost.

Some of our valued clients include:

- | | |
|-----------------------------------|--|
| ABB Inc. | Global Titanium |
| A.E.W. | JHP Pharmaceutical |
| BAE Systems | Macomb County DPW |
| Barton Malow | Macomb County Emergency Management |
| Cargill Salt | Tetra Tech |
| Chrysler | Sani Vac |
| Detroit Hoist and Crane | Vac All |
| DTE Energy | Voss Industries |
| Double Eagle Steel | Warren Waste Water Treatment Plant |
| DuPont Automotive | Multiple Michigan Fire and Public Safety Departments |
| Grosse Pointe Farms Public Safety | |



Bloodborne Pathogens

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This three-hour course provides information on Bloodborne Pathogens OSHA Regulation Title 29, CFR 1910.1030. Defining Communicable Diseases, Universal Precautions, Personal Protective Equipment, Biohazard Waste Management, Employer and Employee Responsibilities, and Exposure Control are some of the topics presented during this program.

Cardiopulmonary Resuscitation (CPR)



AHA American Heart Association Adult Heartsaver

This four-hour course focuses on the assessment and management of adult choking and cardio-pulmonary resuscitation. Involves extensive mannequin practice. Child and/or infant may be included (additional time required).

Other classes available on request:

- BLS for Healthcare Providers—an eight-hour program for the Health Care Professional or Emergency Service Providers.
- Heartsaver AED—a four-hour program for Emergency Service Providers or others who have access to an Automated External Defibrillator (AED) in their work.
- Heartsaver First Aid with CPR and AED—an eight-hour program that incorporates Heartsaver CPR with AED use with basic first aid.
- **Above classes all require formal text (supplied), written and skills evaluation.**

Industrial First Aid



This comprehensive eight-hour course includes extensive hands-on first aid applications. The course covers such areas as severe bleeding, burns, fractures and rescue breathing. Recommended as a minimum training program for Emergency Response Team (ERT) personnel.

Industrial First Aid and CPR



This eight-hour course combines four hours of Basic First Aid with four hours of American Heart Association Heart Saver CPR. Applicable D.O.T. and American Red Cross standards are used. This class may stand alone or serve as a refresher for Emergency Response Team (ERT) personnel. **NOTE: A Bloodborne Pathogens course is strongly recommended to augment this course.**

This course informs workers about chemical hazards in the workplace. Learn how to develop and deliver training that fulfills this obligation, minimizes accidents and protects your organization from the devastating penalties and high costs associated with injuries. Meets OSHA 29, CFR 1910.120.

Approved for DEQ Continuing Education Credits for Drinking Water.



HAZWOPER Incident Management

This 24-hour course is designed to develop the knowledge and skills necessary for emergency response personnel to safely and effectively manage hazardous material and fire emergencies. The program will include Hazardous Materials Operations Level curriculum, the Incident Command System, and the Eight-Step Incident Management System as presented in the course text. Lecture, media, demonstration, table-top exercises and a self evaluation will be included in the course presentation. Meets OSHA 1910.120 and EPA 165.5.

Approved for DEQ Continuing Education Credits for Waste and Drinking Water.



HAZWOPER Technician (24 and 40 Hour)

This 24-hour course is designed for personnel with supervisory or incident spill clean-up responsibilities for site-specific emergencies. The training prepares participants for responding to a small spill and mitigating that incident through the recovery phase. Includes practical exercise. Meets OSHA 29, CFR 1910.120 and EPA 165.5.

A 40-hour course designed to meet the needs of hazardous waste site workers. It provides personnel with knowledge in hazardous waste site operations concentrating on personal health and safety. Topics include team function, respiratory protection, air monitoring, toxicology, chemical protective clothing, reconnaissance, response organization and more. Meets OSHA 29, CFR 1910.120 and EPA 165.5.

Approved for DEQ Continuing Education Credits for Waste and Drinking Water.



HAZWOPER Refreshers

These eight-hour courses satisfy the annual refresher training criteria for personnel trained to the Operations (State of Michigan), Technician and Incident Management Levels. Customized to meet your specific needs.

Approved for DEQ Continuing Education Credits for Waste and Drinking Water.



Confined Space Awareness

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This course is a four-hour program structured to furnish individuals with a short introduction to confined spaces. The student will learn the permit/non-permit requirements of confined space, potential hazards found in a confined space and an introduction to air monitors and lowering and retrieval systems. This class is designed to comply with OSHA 29, CFR 1910.146, and MIOSHA Rule 90.

Confined Space Entry/Attendant



The Entry/Attendant program is a 16-hour program consisting of “Awareness Level” introduction to the Standard; guideline for entry and permit procedures; and all other responsibilities of an attendant. Each student will receive hands-on training on how to use and maintain air monitors, set-up ventilation equipment as well as set-up and use of lowering and retrieval systems. All training will meet OSHA 29, CFR 1910.146, and Part 90 of MIOSHA Regulations.

Approved for DEQ Continuing Education Credits for Waste and Drinking Water.

Confined Space Rescuer



The Rescuer program is a 16-hour course designed to provide students with an introduction, pre-entry procedures, entry and rescue operations. Participants experience extensive hands-on exercises for removal and patient packaging, and terminating the incident. All training is designed to meet OSHA 29, CFR 1910.146, and Part 90 of MIOSHA Regulations.

Pre-requisite: Entry/Attendant

Confined Space Supervisor

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The Supervisor program is an eight-hour program consisting of awareness level, controlling hazards in a confined space, all permit procedures, what are acceptable entry conditions, and maintaining acceptable conditions in a confined space. All training will meet OSHA 29, CFR 1910.146, and Part 90 of MIOSHA Regulations.

NOTE: This class is available as a four-hour presentation when done in conjunction with the 16-hour Entry/Attendant Course.



Confined Space Refresher

This eight-hour program is intended to serve as the annual refresher that is required for personnel trained to the level of Confined Space Rescuer. The class is designed to meet OSHA 29, CFR 1910.146 and Part 90 of MIOSHA Regulations. The eight-hour class may also be structured to serve as an Entry/Attendant Level refresher.

Approved for DEQ Continuing Education Credits for Waste and Drinking Water.



Lockout/Tagout

This three-hour course focuses on how to identify energy sources and required procedures to avoid life threatening situations. Also covered is how to ensure a "Zero Energy State," when to use tags and the rules to follow for using multiple locks. This course meets Lockout Training requirements under OSHA 29 CFR Section 1910.47, and adopted by MIOSHA as Part 85.

Approved for DEQ Continuing Education Credits for Waste and Drinking Water.





The following courses are designed to meet the minimum requirements of NFPA 600, MIOSHA Part 73 and OSHA 1910.156 regarding fire brigades.

The objective of these programs is to ensure that the Industrial Emergency Responders are provided with the education and training (**including live fire training**) needed to safely perform their assigned duties.

COURSE	COURSE LENGTH
A. Incipient Stage	Three days/(24 hours)
B. Advanced Exterior (Prerequisite—Incipient Stage)	Three days/(24 hours)
C. Advanced Interior (Prerequisite—Incipient Stage)	Three days/(24 hours)
D. Advanced Int/Ext (Prerequisite—Incipient Stage)	Three days/(24 hours)
E. Live Burn Fire Brigade Refresher	Four hours

Note: If you have custom needs, contact Health & Safety Training for assistance in the development of a curriculum to meet your training goals.

Protective equipment and SCBA shall be provided by the student.

The following is a list of topics covered under the Fire Brigade Training Series. Individual subject content will vary based on the course taken.

- Duties and Responsibilities
- Chemistry/Behavior of Fire
- Hazards
- Fire Safety Concepts
- Extinguishing Agents
- Portable Fire Extinguishers
- Hose Streams and Appliances
- Safety
- Fire Attack Techniques
- Automatic Fire Detection
- Automatic Sprinkler Protection
- Fire Protection Water Supplies
- Special Extinguishing Systems
- Personal Protective Equipment
- Victim Recovery
- Rope Use
- Forcible Entry
- Ladders
- Ventilation
- Overhaul
- Salvage
- Fire Brigade Apparatus

Additional course information is on the following page.

A. Incipient Fire Fighting

At the Incipient Level, the industrial emergency responder is expected to perform as a member of an organized team assigned fire suppression duties which:

- a. include offensive and defensive operations limited to the use of portable fire extinguishers and low-volume handlines, for operations involving incipient fires;
- b. include defensive operations from outside of the hot zone, utilizing high-volume handlines and/or portable or fixed master stream devices for operation involving advanced exterior fires;
- c. do not require the use of either approved thermal protective clothing or approved SCBA;
- d. do not require personal evasive action to avoid the products of combustion.

B. Advanced Exterior Fire Fighting

At the Advanced Exterior level, the industrial emergency responder is expected to perform as a member of an organized team assigned fire suppression duties which:

- a. include both offensive and defensive operations limited to incipient and advanced exterior fires;
- b. involve the use of portable fire extinguishers, low- and high-volume handlines and/or portable or fixed master stream devices;
- c. require the use of approved thermal protective clothing and/or approved SCBA for operations involving advanced exterior fires.

C. Advanced Interior Fire Fighting

At the Advanced Interior Level, the industrial emergency responder is expected to perform as a member of an organized team assigned fire suppression duties which:

- a. include offensive and defensive operations limited to incipient and advanced interior fires;
- b. involve the use of portable fire extinguishers, low- and high-volume handlines and/or portable or fixed master stream devices;
- c. require the use of approved thermal protective clothing and approved SCBA for operations involving advanced interior fires.

D. Advanced Interior/Exterior

At the Advanced Exterior/Interior Level, the industrial emergency responder is expected to perform, as a member of an organized team, assigned fire suppression duties which:

- a. include both offensive and defensive operations utilizing portable fire extinguishers and/or low-volume handlines and which are limited to incipient stage fires only in enclosed structures and buildings;
- b. include both offensive and defensive operations utilizing high-volume handlines and/or fixed or portable master stream devices involving advanced exterior fire only;
- c. require the use of thermal protective clothing and self-contained breathing apparatus for advanced exterior operations;
- d. utilize fire brigade apparatus to supply handlines and/or master stream devices.





This four (4) hour **Live Burn** training is designed to comply with OSHA 1910.156 Sub Part L by following NFPA Standards 600,1403 and 1406. **Live Burn** exercises will be custom designed to match the certification/training level of the participants. Accordingly, the training can include control and extinguishment of combustible liquid and gas fueled fires, search and rescue, exterior fire fighting and/or interior fire fighting. Live fire training is applicable to both municipal fire departments and industrial fire brigades as an annual refresher.

NOTE: Students are required to provide proof of certifications and their own personal protective equipment including SCBA.

Fire Extinguisher Training



This four (4) hour course is structured to present basic information on the proper use of Portable Fire Extinguishers including:

- Safety Considerations
- Classifications of Fire
- Extinguishing Agents
- Methods of Extinguishment
- Selection and Operation
- Live Practical Applications

This course meets the requirements of OSHA Regulation 1910.157 and MIOSHA Part 8. Portable Extinguishers.

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Self Contained Breathing Apparatus (SCBA)



This eight (8) hour class concentrates on the standards, use and maintenance of self contained breathing apparatus and respiratory protection. Complies with NFPA 600.

Emergency Services Escort

This 16-hour course is intended for members of Emergency Response Teams (ERT), Fire Brigades, First Responders and supervisory personnel assigned the duties of providing technical assistance and escort service to municipal fire departments and other emergency response agencies.

The Emergency Services Escort will assume the role of guiding emergency response agencies into involved areas of company facilities during an emergency incident. Working within the structure of the Incident Management System, the Escort will provide advice and direction (including physical entry and egress to the involved area) to outside agencies with regard to company procedures, inherent hazards, and the direct and indirect effects of any actions taken. OSHA, MIOSHA, and NFPA standards and regulations are referenced to establish the appropriate levels of activity and limitation of the Escort's duties.



Emergency Services Escort Refresher

This eight-hour course is designed as an annual refresher to review, update and enhance the skills and knowledge of the Emergency Services Escort. Hands-on practical application using personal protective equipment is typically emphasized. Company and site-specific procedures are addressed, and on-site scenarios are a preferred method of delivery.



Community Emergency Response Team (CERT)

The Community Emergency Response Team (CERT) Program educates people about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills such as fire safety, light search and rescue, team organization, and disaster medical operations. Using the training learned in the classroom and during exercises, CERT members can assist others in their neighborhood or workplace following an event when professional responders are not immediately available to help. CERT members also are encouraged to support emergency response agencies by taking a more active role in emergency preparedness projects in their community.





This is typically an eight-hour course with optional eight-hour sessions available for advanced operations. The course gives fire officers and fire fighters an understanding of the importance of establishing a Rapid Intervention Team (R.I.T.) at an emergency scene. Personnel demonstrate selecting a staging area, supplying it with tools/equipment and rotating through practical skill stations using Locate, Access, Stabilize and Transfer (L.A.S.T.) to rescue a downed fire fighter. Applicable to Industrial Brigades as well.

Rope Rescue I



This 16-hour course is designed to provide awareness and operations level training in the use of ropes for descending, using anchors, and rigging. Course content is suitable to Fall Protection applications. Hands-on application is emphasized. Meets NFPA 1670, 1983.

Rope Rescue II

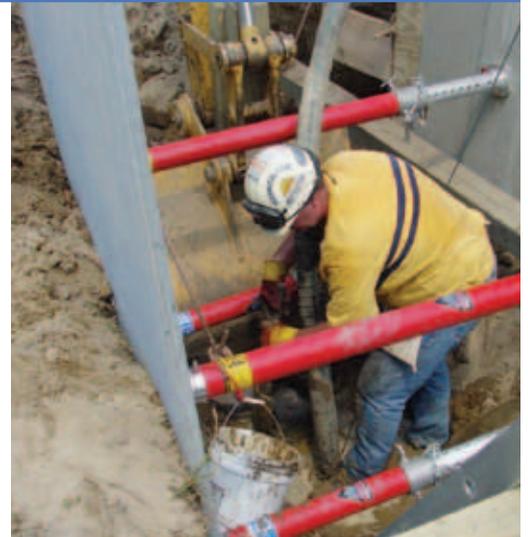


This 16-hour course takes Rope I trainees to the Technician Level. Topics include ascending, mechanical advantage systems, patient movement/removal, rigging, ladder gin, cantilever, slide and more. Course content is suitable to Fall Protection applications. **Prerequisite: Rope Rescue I.**

Trench Rescue Awareness

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This four-hour course provides the first responder with the means to identify the hazards associated with collapse and its associated dangers. Awareness level training provides a decision-making matrix (risk/reward analysis), understanding of OSHA standards and types of emergencies that can occur at an excavation site that may or may not involve collapse. Meets multiple OSHA and MIOSHA standards.



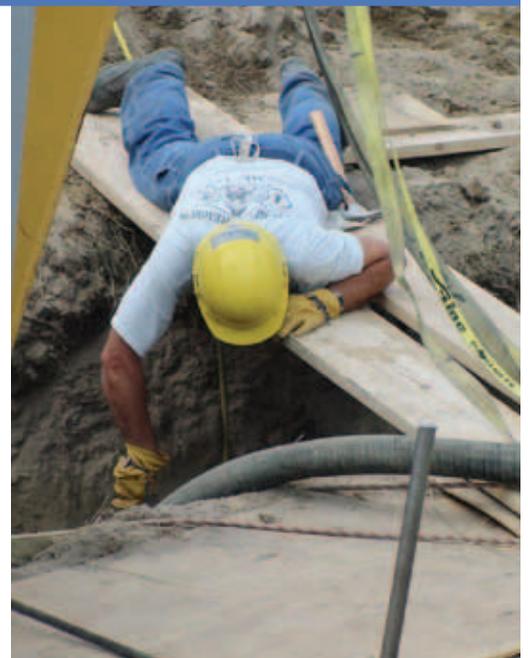
Trench Rescue Operations

This 24-hour course represents the first level in which team members learn the necessary knowledge and skills to render certain types of collapse emergencies safe for rescue operations. The operations level trained personnel learn techniques to place sheeting and shoring systems in all trenches that are not more than 15 feet deep and do not intersect. Meets multiple OSHA and MIOSHA standards. **Prerequisite: Rope Rescue I & II.**



Trench Rescue Technician

This sixteen-hour course represents training in trenches with intersecting walls and deep wall trenches. Personnel at this level are primarily responsible for the overall operation, development of protective systems, access and disentanglement of victims in trenches or excavation collapses. Persons at this level typically have advanced training in other disciplines of technical rescue. They include rope rescue training, confined space rescue training, and structural collapse rescue. Meets multiple OSHA and MIOSHA standards. **Prerequisite: Trench Rescue Awareness and Operations.**





This is a four-hour program designed to provide an introduction to fall protection, the safety equipment used, and an overview of current/proposed regulations. This course meets OSHA 29,1926.503 and MIOSHA Part 45.

Approved for DEQ Continuing Education Credits for Waste and Drinking Water.

Powered Industrial Trucks (Forklift) Safety



This four- to eight-hour program (depending on equipment, personnel experience and local operations) focuses on general forklift safety, the truck and surrounding hazards. Specific topics of coverage include vehicle capacity, stability limitations and maintenance, refueling, working on grade, pedestrian safety, hazardous locations, ventilation and dock operations (if applicable). Students will complete several practical training exercises as well as a written performance evaluation. State-sanctioned permits will be issued upon successful completion of program. This program is designed to meet OSHA 29, CFR 1910.178 and MIOSHA Part 21.

DEQ Continuing Education Credits



Please call for list of courses approved for DEQ Continuing Education Credits for Waste and Drinking Water.

Please call for a customized package or class designed to meet your specific needs at 586.498.4055.

We can customize training programs in the following areas:

- Compliance/Workplace Safety
- Emergency Planning and Preparedness
- Emergency Response to Terrorism—Basic Concepts
- Emergency Response to Terrorism—EMS
- Evacuation Planning
- Juvenile Firesetter
- Violence in the Workplace

And many more....



MIOSHA Training Institute at Macomb Community College 14



Macomb Community College Health & Safety Training has partnered with MIOSHA through an Alliance Agreement and Cosponsor designation to host MIOSHA standards and compliance courses. In addition, Macomb manages and maintains the database for transcripts and certificate distribution for all attendees successfully completing MTI courses conducted throughout the state of Michigan.

MTI courses were jointly developed to provide high-quality, affordable, consistent, participant-driven and informative seminars. The courses are directed toward improving and advancing safety and health in the workplace, and are attended by industry personnel responsible for these endeavors as well as MIOSHA personnel. Certification is awarded when a participant attends six full days of training within three years in any given category. Program categories are formatted as Level One and Level Two Certifications in General Industry and/or Construction with the ability to concentrate on specific-interest tracks.

Courses are scheduled and published on an annual basis beginning in October of each year. Scheduling is designed to provide timely and ample opportunity to attend all courses required for certification and are offered at designated cosponsor sites throughout the state.

For a full list of courses and locations visit: www.michigan.gov/miosha

For information on courses offered through MTI at Macomb's Health and Safety Training call 586.498.4055 or email us at hst@macomb.edu

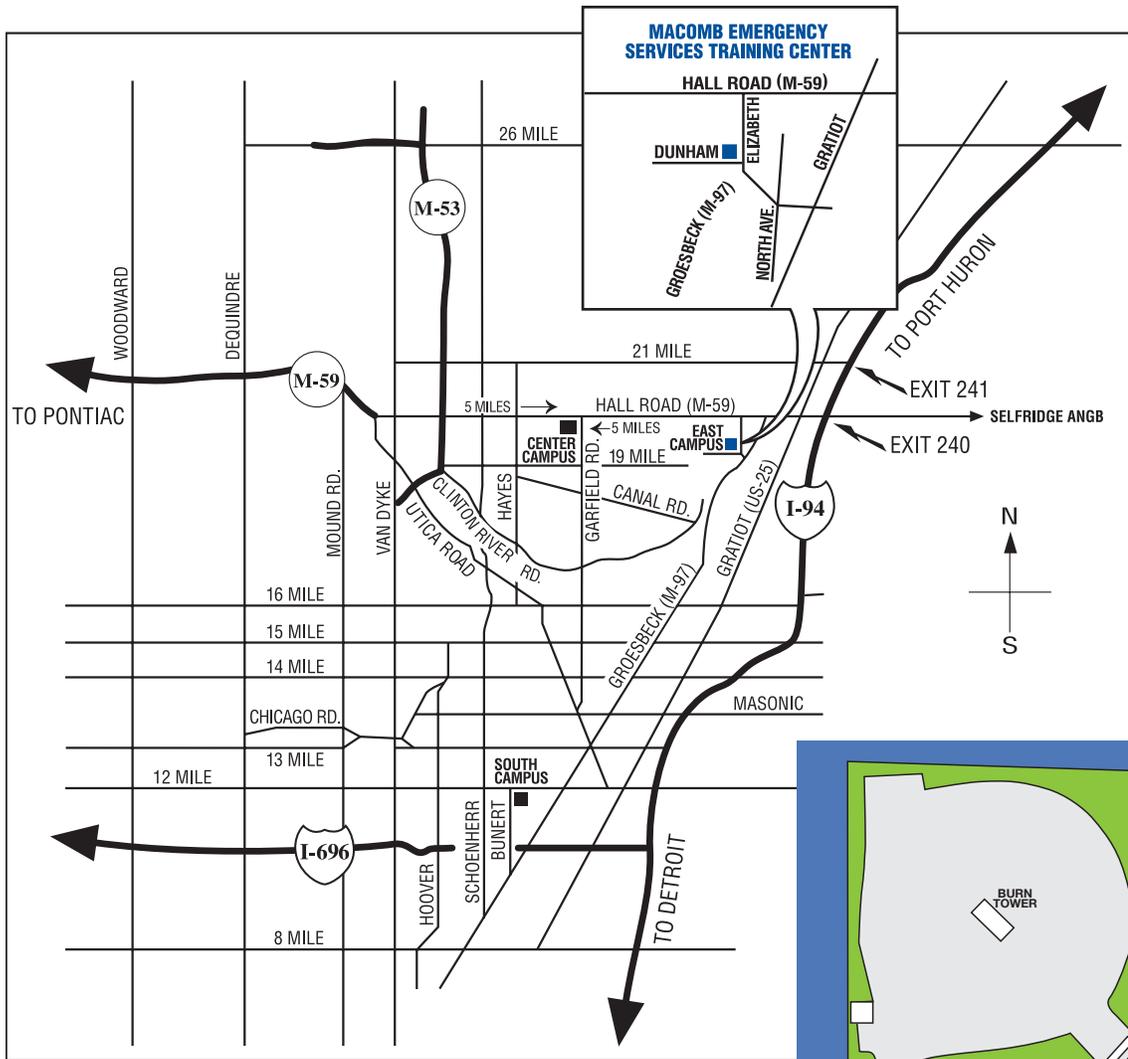
MIOSHA Training Institute

MIOSHA
Michigan Occupational Safety
and Health Administration

 **Macomb
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at East Campus



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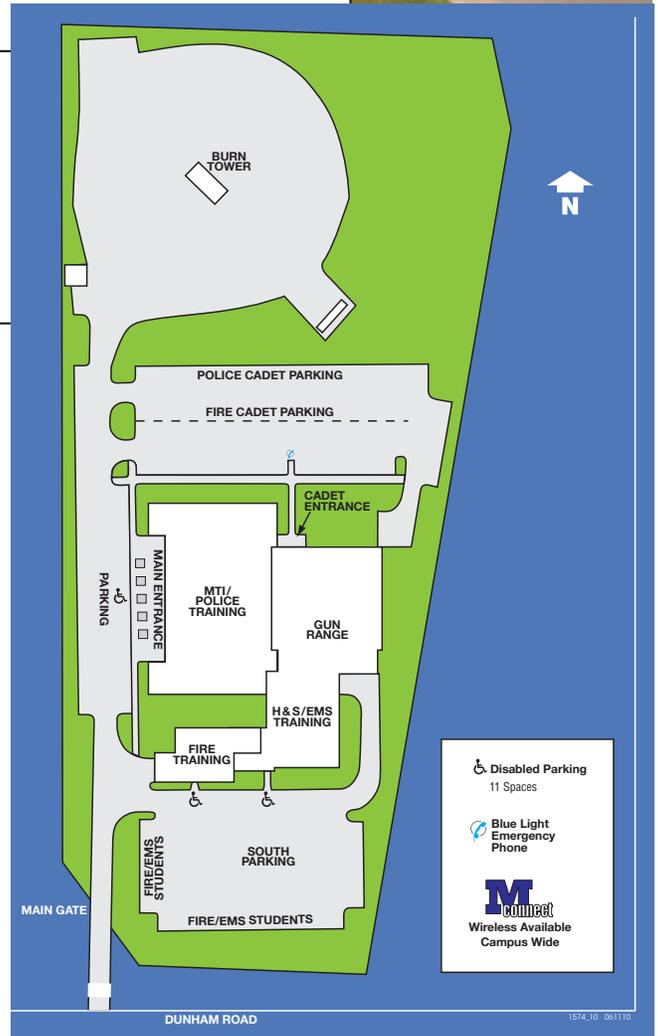
East Campus

21901 Dunham Road
Clinton Township MI 48036
586.498.4055

Travel Groesbeck (M-97) Highway to Elizabeth Road.

Turn northwest on Elizabeth for one block,
then west on Dunham Road.

Turn right at the first driveway into the Center.





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**MACOMB COMMUNITY COLLEGE
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