

**STANDARDIZED E.M.S.
CONTINUING EDUCATION CREDITS
GUIDE**

**Michigan Department of
Community Health**

2/2007 Update

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INSTRUCTOR/COORDINATOR GUIDE TO STANDARDIZED CONTINUING EDUCATION CREDITS

Each of the following standardized courses has been pre-approved by MDCH for EMS continuing education credits. Instructor/Coordinators do not need to complete a Notification of Intent to Conduct Continuing Education Program Form (BHPPA-EMS 202) for the courses listed.

If audited for continuing education credits at the time of license renewal, EMS providers must submit to MDCH a copy of the course completion certificate or other attendance documentation which includes course date and instructor signature.

To be included in this guide, a program must be presented frequently in Michigan, be presented consistently every time from a published curriculum and have a state or national organization which sponsors it and provides oversight.

Format for Credit Distribution (effective 5/05)

The new matrix will display new category areas along side of the old topic titles. Credits are listed as either a lecture credit or practical credit. The total of the lecture column and practical credit column should be added together for the course total credits.

EXAMPLE:

<i>Category</i>	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	IV Therapy						1		1
<i>Patient Assessment</i>	Pt. Assessment/Triage		1		1		1		1
<i>Airway/Ventilation</i>	Airway Basic		1		1		1		1
	Airway Advanced						1		1
<i>Medical</i>	Respiratory	1		1		1		1	
<i>Trauma</i>	Shock	1		1		1		1	
	Musculoskeletal	1		1		1		1	
<i>Special Considerations</i>	Pediatrics	1		1		1		1	
<i>Operations</i>	Rescue/Extrication		1		1		1		1
TOTAL CREDITS		4	3	4	3	4	5	4	5

This example shows MFR providers will earn 4 lecture credits and 3 practical credits for attending this course.

Please refer to the Conversion Documents in the Appendix to determine what new category relates to the old topic titles.

TABLE OF CONTENTS

Introduction	2
Table of Contents	3
Advanced Cardiac Life Support (Provider Experienced Provider, & Instructor)	6
Advanced HazMat Life Support	7
Advanced Medical Life Support	7
Advanced Pediatric Life Support	7
Advanced Trauma Life Support	8
Advanced Trauma Care for Nurses	8
Basic Cardiac Life Support (CPR)	8
CAMP 911	9
CBRNE/WMD Defensive Operations	9
CBRNE/WMD Defensive Operations for Healthcare Professionals	10
CBRNE Technician: Technical Emergency Response Training	10
Child Death Review Team Training	11
Clandestine Drug Labs - Awareness	11
Coaching the Emergency Vehicle Operator (CEVO II)	11
Critical Care Paramedic	12
Critical Incident Stress Debriefing	12
Driver Training	12
Emergency Medical Care Module of Fire Fighter I	13
Emergency Medical Dispatch	13
Emergency Medical Priority Dispatch Programs (Clawson Program) (Recertification, Refresher, Bridge Course, Advanced Course)	13
Emergency Nursing Pediatric Course	15
Emergency Pediatric Course (Provider, Instructor) formally PPC	15
Emergency Response to Terrorism Courses (Standard Course, Awareness Course, Strategic Considerations - Command Officers, Tactical Considerations - Company Officer, Tactical Considerations-EMS, Tactical Considerations-Hazardous Materials)	16
Emergency Vehicle Operation Course	17
Epi-Pen Curriculum (and Recert)	18

First Trauma Care (and Instructor Course)	18
Geriatric Education for EMS	19
Hazardous Materials Courses	19
(Basic Life Support and Hazardous Materials Response, First Responder Hazardous Materials - Awareness Level, First Responder Hazardous Materials - Operations Level, Hazardous Materials - Technical/Specialist Level)	
Health & Safety Officer	20
Incident Command System for EMS (see NIMS)	
Initial Emergency Driving Safety Course	21
Instructor Techniques Course	21
International Trauma Life Support Course (formerly BTLS)	21
ITLS Recertification	
ITLS Instructor Course	
ITLS Access Course	
Landing Zone Course	22
Michigan Urban Search and Rescue	23
NIMS Incident Command System for EMS, Fire and Law Enforcement Personnel	24
Unified Incident Command	24
Neonatal Resuscitation	25
Pediatric Advanced Life Support (Provider, Recert., and Instructor)	25
Pediatric Basic Trauma Life Support	26
Pediatric Education for Pre-Hospital Professionals (Provider, Renewal)	26
Pediatric Pre-Hospital Care (Provider, Instructor) See Emergency Pediatric Course	
Pre-Hospital Trauma Life Support (Provider, Refresher, and Instructor)	27
Project Brain Save	28
Public Information, Education, and Relations	28
Stroke: Acute Stroke Update for EMS	28
T.E.A.M Emergency Driving Safety Course (see Initial Emergency Safety Course)	20
Prehospital Management of Traumatic Brain Injury (TBI)	29
Trauma Nurse Core Curriculum	29
Urban Search and Rescue Medical Specialist Course	29
Vehicle Extrication	30
Weapons of Mass Destruction Courses also see NIMS or CBRNE programs	
Weapons of Mass Destruction: Radiological/Nuclear Awareness	30
When Seizures are Medical Emergencies	30

On-Line CE Credits	31
Medical First Responders Completing a Basic EMT Course	32
Basic EMTs Completing a Paramedic Course	32
Basic EMTs Completing a Specialist Course	32
Specialists Completing a Paramedic Course	32
Appendices	33
A. Conversion Documents	34
B. Contact List, CE Sponsors	38

COURSE: Advanced Cardiac Life Support (ACLS)

This comprehensive course, sponsored by the American Heart Association, covers all phases of emergency cardiac care. Emphasis is on early recognition of dysrhythmias, electrical therapy, pharmacologic treatment, and stabilization of patients. Two year certification.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Pharmacology							1	
<i>Airway/Ventilation</i>	Airway Advanced						1		1
<i>Medical</i>	Cardiovascular			1	1	1	1	1	1
TOTAL CREDITS				1	1	1	2	2	2

NOTE:

1. EMS personnel can receive the above credits each time they participate in ACLS, whether certification or recertification.
2. Persons attending an ACLS course where the I/C has applied for additional credits must sign the attendance roster and maintain documentation of approved credits. The ACLS card is not used as proof of credit in this situation.

COURSE: ACLS-EP (Experienced Provider)

This specialized American Heart Association course for experienced providers includes stations on cardiovascular emergencies, electrolyte abnormalities, environmental emergencies, and toxicologic emergencies.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Medical</i>	Cardiovascular					1	1	1	1
	Environmental Emerg					1		1	
	Poison/Substance Abuse					1		1	
<i>Trauma</i>	Shock						1		1
TOTAL CREDITS						3	2	3	2

COURSE: Advanced Cardiac Life Support Instructor Course (ACLS)

American Heart Association course to certify ACLS instructors.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Pharmacology					0		1	
<i>Airway/Ventilation</i>	Airway Basic					1		1	
	Airway Advanced					1		1	
<i>Medical</i>	Cardiovascular							2	
TOTAL CREDITS						2		5	

I/C's will also receive the following credits:

Instructor Coordinator Topics	Credits
Instructional Techniques	3
Measurement & Evaluation	2
Education Administration	2

COURSE: Advanced HazMat Life Support

This two-day course was developed by the Arizona Emergency Medicine Research Center, University of Arizona. It covers toxic inhalations, pesticides, corrosives, hydrocarbons, and miscellaneous toxicants. It includes lectures, case studies, and a mandatory exam. This course also sponsored by the National Fire Academy.

<i>Category</i>	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Medical</i>	Respiratory	2		2		2		2	
	Environmental	2		2		2		2	
<i>Operations</i>	Disaster Planning	3		6		6		6	
	HazMat	3		6		6		6	
TOTAL CREDITS		10		16		16		16	

COURSE: Advanced Medical Life Support

This two day course sponsored by NAEMT and NAEMSP prepares the provider to manage medical complaints of the adult patient.

<i>Category</i>	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	2	1	2	1	2	1	2	1
<i>Airway/Ventilation</i>	Airway Basic	1		1		1		1	
<i>Medical</i>	Respiratory	1	1	1	1	1	1	1	1
	Abdominal Illness	1	1	1	1	1	1	1	1
	CNS Illness	2	1	2	1	2	1	2	1
<i>Trauma</i>	Shock	2	1	2	1	2	1	2	1
TOTAL CREDITS		9	5	9	5	9	5	9	5

COURSE: Advanced Pediatric Life Support (APLS)

This course was designed by a joint committee of pediatric experts from the American College of Emergency Physicians and the American Academy of Pediatrics. The goal of this two-day course is to provide exposure to the full spectrum of pediatric emergencies to practitioners who treat children.

<i>Category</i>	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	A & P			1		1		1	
	IV Therapy					1		1	
	Pharmacology							1	
<i>Airway/Ventilation</i>	Airway Advanced					1		1	
<i>Medical</i>	Cardiovascular Basic			1		1			
	Cardiovascular Advanced							1	
	Respiratory			1		1		1	
	CNS Illness			1		1		1	
	Diabetic Emergencies			1		1		1	
<i>Trauma</i>	Shock			1		1		1	
<i>Special Considerations</i>	Pediatrics			2		2		2	
TOTAL CREDITS				8		10		11	

COURSE: Advanced Trauma Life Support (ATLS)

This course is designed for physicians and sponsored by the American College of Surgeons. Prehospital treatment is not emphasized in this course. Currently, the American College of Surgeons only issues ATLS Provider Certification to physicians. Certification is four years for physicians. Non-physician personnel can audit the course. No certification for non-physicians.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	IV Therapy					1		1	
<i>Patient Assessment</i>	Pt. Assessment					1		1	
<i>Airway/Ventilation</i>	Airway Advanced					1		1	
<i>Medical</i>	Respiratory					1		1	
<i>Trauma</i>	Shock					1		1	
	Spinal Injury/Backboarding					1		1	
	Burns					1		1	
	Abdominal Injury					1		1	
	CNS Injury					1		1	
	Musculoskeletal					1		1	
	Chest Injury					1		1	
TOTAL CREDITS						11		11	

COURSE: Advanced Trauma Care for Nurses (ATCN)

This course for nurses is taught concurrently with the ATLS course for physicians. It is sponsored by the Society of Trauma Nurses, MI Committee on Trauma, and American College of Surgeons. It presents a comprehensive approach to the injured patient, including physiologic concepts, ethics, and principles of trauma system development.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment			1	2	1	2	1	2
<i>Airway/Ventilation</i>	Airway Basic			1	1	1	1	1	1
<i>Trauma</i>	Shock			1	1	1	1	1	1
	CNS Injury			1	1	1	1	1	1
	Spinal Injury/ Backboarding				1		1		1
	Abdominal Injury			1		1		1	
	Musculoskeletal Injury			1		1		1	
<i>Special Considerations</i>	Geriatrics			1		1		1	
	Pediatrics				1		1		1
TOTAL CREDITS				7	7	7	7	7	7

COURSE: Basic Cardiac Life Support Initial Certification and Re-certification

BCLS courses are offered by various agencies but must meet the standards set forth by the American Heart Association. The course must be designed for healthcare professionals. The BCLS Instructor card and BCLS Instructor Trainer card will take the place of a BCLS provider level card. The Department accepts American Heart Association, American Red Cross, American Safety & Health Institute, National Safety Council courses.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Medical</i>	Cardiac Basic	1		1		1		1	
TOTAL CREDITS		1		1		1		1	

COURSE: Camp 9-1-1

Counselors teaching the SWM Systems, Inc. 2 day standardized Camp 9-1-1 curriculum will receive the following credits. Participants must submit a signed statement on letterhead from the Camp 9-1-1 coordinator listing camp dates, location and the credits listed.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Pt. Assessment/Triage	2		2		2		2	
<i>Airway/Ventilation</i>	Airway Basic	2		2		2		2	
<i>Trauma</i>	Bleeding/Soft Tissue	1		1		1		1	
<i>Operations</i>	EMS Systems Operations	1		1		1		1	
TOTAL CREDITS		6		6		6		6	

In addition, IC's may earn the following credit.

Instructor Coordinator Topics	Credits
Measurement & Evaluation	1

**COURSE: CBRNE/WMD Defensive Operations
Chemical, Biological, Radiological, Nuclear, Explosive**

This nine hour classroom course sponsored by Michigan State Police Hazardous Materials Training Center provides an introduction to planning and preparedness for a response to a terrorist event.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Injury Prevention	1		1		1		1	
<i>Patient Assessment</i>	Communications	1		1		1		1	
<i>Medical</i>	Poisons	1		1		1		1	
	Environmental	1		1		1		1	
<i>Operations</i>	Hazardous Materials	1		1		1		1	
	Disaster Planning	2		2		2		2	
	EMS Systems Operations	1		1		1		1	
TOTAL CREDITS		8		8		8		8	

COURSE: CBRNE Defensive Operations for Healthcare Professionals
Chemical, Biological, Radiological, Nuclear, Explosive

This sixteen hour classroom course sponsored by Michigan State Police Hazardous Materials Training Center provides comprehensive knowledge for a multi-casualty emergency using an all hazard approach to patient care addressing: Decontamination, Pre-Hospital Trauma Triage, Pre-Hospital Decontamination Triage, Treatment, Transport, and Hospital Pre-Decontamination Triage, Decontamination, Post Decontamination Triage, Post Decontamination emergency care and definitive care.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Medical / Legal	1		1		1		1	
	BSI / PPE	1	2	1	2	1	2	1	2
	Pharmacology	1		1		1		1	
	Patient Handling		1		1		1		1
<i>Patient Assessment</i>	Communications		1		1		1		1
	Patient Assessment		1		1		1	1	1
<i>Medical</i>	Radiological	1		1		1		1	
	Toxicology	1		1		1		1	
<i>Trauma</i>	Soft Tissue Injuries	1		1		1		1	
<i>Special Considerations</i>	Geriatrics	1		1		1		1	
	Pediatrics		1		1		1	1	1
<i>Operations</i>	Hazardous Materials	1		1		1		1	
	Disaster Planning	1		1		1		1	
	ICS		1		1		1		1
	Triage		1		1		1		1
TOTAL CREDITS		8	8	8	8	8	8	8	8

COURSE: CBRNE Technician Technical Emergency Response Training

This three day classroom course sponsored by Michigan State Police Hazardous Materials Training Center provides technician level response preparedness to a terrorist event.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Stress Management	1		1		1		1	
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
	Communications	1		1		1		1	
<i>Medical</i>	Poisons	1		1		1		1	
<i>Operations</i>	Hazardous Materials	4		4		4		4	
	Disaster Planning	3		3		3		3	
	EMS Systems Operations	2		2		2		2	
TOTAL CREDITS		13		13		13		13	

COURSE: Child Death Review Team Training

The goal of the two-day training program is to enhance participants' understanding of child fatalities. The goal is also to develop skills in conducting comprehensive review of child fatalities. This program is presented by the Michigan Public Health Institute.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Anatomy & Physiology	1		1		1		1	
	Communicable Diseases	1		1		1		1	
	Medical Legal	2		2		2		2	
	Stress Management	2		2		2		2	
<i>Patient Assessment</i>	Pt. Assessment	2		2		2		2	
<i>Medical</i>	Behavioral Emergencies	1		1		1		1	
<i>Trauma</i>	CNS Injuries	1		1		1		1	
<i>Special Considerations</i>	Pediatrics	3		3		3		3	
TOTAL CREDITS		13		13		13		13	

COURSE: Clandestine Drug Labs - Awareness

This 4 hour course was developed for police, fire and EMS personnel as an introduction in how to recognize a clandestine drug lab, the dangers involved, and the importance of multi-agency cooperation when responding to a known or potential clandestine drug lab. Acceptable proof of completion is an Office of Firefighter Training certificate, Michigan Coalition on Law Enforcement Standards certificate, or documentation from an EMS I/C.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Medical</i>	Environmental Emerg	1		1		1		1	
<i>Operations</i>	Disaster Planning	1		1		1		1	
	EMS Systems Operations	1		1		1		1	
	Hazardous Materials	1		1		1		1	
TOTAL CREDITS		4		4		4		4	

COURSE: Coaching the Emergency Vehicle Operator (CEVO II - Ambulance)
Coaching the Emergency Vehicle Operator (CEVO II - Fire)

This six to eight hour course, organized by the National Safety Council, provides multi-media defensive driving training. Driving tactics covered in the course include vehicle inspection, driving in adverse weather, discussion of department policies, vehicle placement in traffic, the public's reaction to emergency vehicles in traffic, safe return from a call, and rural, field, and off-road driving. This course meets the MDCH Agency Inspection requirement for department approved vehicle operation education and competency assessment

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
<i>Operations</i>	Emergency Driving		3		3		3		3
	EMS Systems Operations	1		1		1		1	
TOTAL CREDITS		2	3	2	3	2	3	2	3

COURSE: Critical Care Paramedic (CCEMT-P)

Offered through the University of Maryland - Baltimore County, the Critical Care Paramedic Training Program is designed to prepare nurses and paramedics to function as members of a critical care transport team. Participants will gain an understanding of the special needs of critical patients during transport, become familiar with the purpose and mechanisms of in-hospital procedures and equipment, and develop the skills to maintain the stability of the critical care patient during transport. Certification is three years.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Communicable Disease							2	
	IV Therapy								1
	Pharmacology							6	
<i>Patient Assessment</i>	Pt. Assessment/Triage							4	1
<i>Airway/Ventilation</i>	Airway Advanced							3	1
<i>Medical</i>	Cardiac Advanced							4	2
	Respiratory							4	
	Environmental Emerg							2	
<i>Trauma</i>	CNS Injury							5	
	Shock							2	
	Abdominal Injury							1	
	Burns							3	
	Chest Injury							1	
<i>Special Considerations</i>	Pediatrics							2	
	Geriatrics							1	
TOTAL CREDITS								40	5

COURSE: Critical Incident Stress Debriefing - Team Training Program

This two day course, sponsored by the International Critical Incident Stress Foundation in Ellicott City, Maryland, assists participants in developing and managing a CISD team. The course prepares mental health professionals and peer support personnel from the emergency services to provide a variety of crisis services for distressed emergency personnel. The services described in the training include pre-incident education, defusing, demobilizations, significant other support and debriefings.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
<i>Patient Assessment</i>	Communications	1		1		1		1	
<i>Medical</i>	Behavioral Emergencies	2		3		3		3	
<i>Operations</i>	EMS Systems Operations	2		3		3		3	
TOTAL CREDITS		6		8		8		8	

COURSE: Driver Training Course

This course is sponsored by the Office of Fire Fighters Training, to teach the principles and skills of emergency vehicle driving. An OFFT Driver Training Record is required to obtain pre-approved credits. This course meets the MDCH Agency Inspection requirement for department approved vehicle operation education and competency assessment.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Operations</i>	Emergency Driving	3		3		3		3	
	EMS Systems Operations	2		2		2		2	
TOTAL CREDITS		5		5		5		5	

COURSE: Emergency Medical Care Module of Fire Fighter I

This fifteen hour class is the prehospital emergency training module in a Fire Fighter I course. This course is taught through the Office of Fire Fighter Training. An OFFT instructor-issued letter is required to obtain pre-approved credits.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Communicable Disease	1	1	1	1	1	1	1	1
<i>Patient Assessment</i>	Pt Assessment	1	1	1	1	1	1	1	1
<i>Airway/Ventilation</i>	Airway Basic	1	1	1	1	1	1	1	1
<i>Medical</i>	Respiratory		1		1		1		1
	Environmental Emerg		1		1		1		1
<i>Trauma</i>	Burns		1		1		1		1
TOTAL CREDITS		3	6	3	6	3	6	3	6

COURSE: Emergency Medical Dispatch

Several training companies have been approved to conduct the National Highway Traffic Safety Administration (NHTSA) Emergency Medical Dispatch (EMD) National Standard Curriculum. These include Association of Public Safety Communications Officials (APCO), Medical Priority Dispatch (Clawson), National Communications Institute (NCI), and PowerPhone. As these 24-hour-minimum programs all follow the NHTSA curriculum, the pre-approved CE credits will be the same for all four programs. (Credits for the Clawson recertification, refresher, and bridge courses will remain the same as listed below.)

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	A & P	1		1		1		1	
	Med/Legal	2		2		2		2	
<i>Patient Assessment</i>	Patient Assessment	2	1	2	1	2	1	2	1
	Communications		3		3		3		3
<i>Airway/Ventilation</i>	Airway Basic	2		2		2		2	
<i>Medical</i>	Cardiac Basic	1		1		1		1	
	CNS Illness	1		1		1		1	
<i>Trauma</i>	Shock	1		1		1		1	
	Bleeding/Soft Tissue	1		1		1		1	
	Musculoskeletal	1		1		1		1	
<i>Operations</i>	EMS Systems Operations	3		3		3		3	
TOTAL CREDITS		15	4	15	4	15	4	15	4

COURSE: Emergency Medical Priority Dispatch Program (Clawson Program) Recertification

This brief course provides a review and written examination.

<i>Category</i>	<i>Topic</i>	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
	Communications	1		1		1		1	
TOTAL CREDITS		2		2		2		2	

COURSE: Emergency Medical Priority Dispatch Program (Clawson Program) Refresher

This is an eight hour refresher program.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Communications	1		1		1		1	
	Patient Assessment	1		1		1		1	
<i>Medical</i>	Respiratory	1		1		1		1	
	Behavioral Emergencies	1		1		1		1	
	Abdominal Illness	1		1		1		1	
<i>Trauma</i>	Shock	1		1		1		1	
	Bleeding/Soft Tissue	1		1		1		1	
	Chest Injury	1		1		1		1	
TOTAL CREDITS		8		8		8		8	

COURSE: Emergency Medical Priority Dispatch (Clawson Program) Bridge Course to MPDS Version 11.0

For current EMD certified providers to be updated to Version 11.0 of the MPDS program.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Communications	2		2		2		2	
	Patient Assessment	2		2		2		2	
<i>Medical</i>	Cardiac Basic	1		1		1		1	
	Respiratory	1		1		1		1	
<i>Trauma</i>	Bleeding/Soft Tissue	1		1		1		1	
	Shock	1		1		1		1	
TOTAL CREDITS		8		8		8		8	

COURSE: Emergency Medical Priority Dispatch- Advanced (Clawson Program)

The advanced EMD course is an instructor led 24 hour course with an additional 2 hour Computer Based Training lesson that is required for the completion of the course.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	A & P	1		1		1		1	
	Med/Legal	2		2		2		2	
<i>Patient Assessment</i>	Patient Assessment	2	1	2	1	2	1	2	1
	Communications		3		3		3		3
<i>Airway/Ventilation</i>	Airway Basic	2		2		2		2	
<i>Medical</i>	Cardiac Basic	1	1	1	1	1	1	1	1
	CNS Illness	1		1		1		1	
<i>Trauma</i>	Shock	1		1		1		1	
	Bleeding/Soft Tissue	1		1		1		1	
	Musculoskeletal	1		1		1		1	
<i>Operations</i>	EMS Systems Operations	3		3		3		3	
TOTAL CREDITS		15	5	15	5	15	5	15	5

COURSE: Emergency Nursing Pediatric Course (ENPC)

This sixteen hour course is sponsored by Emergency Nurses Association. The curriculum is designed to provide a consistent standardized knowledge base including the psychomotor skills associated with the delivery of nursing care to the pediatric patient. Certification is four years.

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Anatomy & Physiology	1		1		1		1	
<i>Patient Assessment</i>	Patient Assessment	1	2	1	2	1	2	1	2
<i>Airway/Ventilation</i>	Airway Basic		1		1		1		1
<i>Medical</i>	Respiratory	1		1		1		1	
	Poisons	1		1		1		1	
	Behavioral Emergencies	1		1		1		1	
<i>Trauma</i>	Shock	1		1		1		1	
<i>Special Considerations</i>	Pediatrics	2	3	2	3	2	3	2	3
<i>TOTAL CREDITS</i>		8	6	8	6	8	6	8	6

COURSE: Emergency Pediatric Course (EPC) formally Pediatric Pre-Hospital Care (PPC)

This one or two day course sponsored by the National Association of Emergency Medical Technicians offers a practical approach to pediatric emergencies utilizing lecture, scenarios, skill testing and a written exam. Certification is for two years.

One day BLS course:

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment		1		1		1		1
<i>Airway/Ventilation</i>	Airway/O2 Basic		1		1		1		1
<i>Medical</i>	Cardiovascular - Basic	1		1		1		1	
	Respiratory	1		1		1		1	
<i>Special Considerations</i>	Pediatrics	2	2	2	2	2	2	2	2
<i>TOTAL CREDITS</i>		4	4	4	4	4	4	4	4

Two day ALS course:

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	IV Therapy						1		1
<i>Patient Assessment</i>	Patient Assessment			1	2	1	2	1	2
<i>Airway/Ventilation</i>	Airway/O2 Basic			1	1	1	1	1	1
<i>Medical</i>	Cardiovascular - Basic			1	1	1	1	1	1
<i>Trauma</i>	Shock			1		1		1	
<i>Special Considerations</i>	Pediatrics			5	2	5	2	5	2
<i>TOTAL CREDITS</i>				9	6	9	7	9	7

COURSE: PPC Instructor Course

A four hour course for licensed I/C's:

Instructor Coordinator Topics	Credits
Measurement & Evaluation	2
Education Administration	2

COURSE: Emergency Response to Terrorism

This 16-hour course, sponsored by the Federal Emergency Management Agency (FEMA), prepares EMS personnel to take the appropriate course of action at the scene of a potential terrorist incident. Department of Justice or Office of Firefighter Training certificate is required to obtain pre-approved credits.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Stress Management	1		1		1		1	
<i>Patient Assessment</i>	Communications	1		1		1		1	
<i>Medical</i>	Poisons/Substance Abuse	1		1		1		1	
<i>Operations</i>	EMS Systems Operation	2		2		2		2	
	Hazardous Materials	2		2		2		2	
	Disaster Planning	2		2		2		2	
TOTAL CREDITS		9		9		9		9	

COURSE: Emergency Response to Terrorism - Awareness

This awareness program sponsored by FEMA can be done in a 4-hour training session or a self-study program. Department of Justice or Office of Firefighter Training certificate is required to receive pre-approved credits.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Communications	1		1		1		1	
<i>Medical</i>	Poisons/Substance Abuse	1		1		1		1	
<i>Operations</i>	EMS Systems Operation	1		1		1		1	
	Hazardous Materials	1		1		1		1	
TOTAL CREDITS		4		4		4		4	

COURSE: Emergency Response to Terrorism - Strategic Considerations for Command Officers

This 13-hour course, sponsored by the Federal Emergency Management Agency (FEMA), prepares experienced Command Officers for strategic consideration and unique aspects of emergency operations during a terrorist event. Department of Justice or Office of Firefighter Training certificate is required to obtain pre-approved credits.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Communications	2		2		2		2	
<i>Operations</i>	EMS Systems Operation	2		2		2		2	
	Disaster Planning	3		3		3		3	
TOTAL CREDITS		7		7		7		7	

COURSE: Emergency Response to Terrorism - Tactical Considerations for Company Officers

This 13-hour course, sponsored by the Federal Emergency Management Agency (FEMA), prepares the responding officer to establish command and manage operations until relieved by a senior officer during a terrorist event. Department of Justice or Office of Firefighter Training certificate is required to obtain pre-approved credits.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Communications	2		2		2		2	
<i>Operations</i>	EMS Systems Operation	2		2		2		2	
	Disaster Planning	3		3		3		3	
TOTAL CREDITS		7		7		7		7	

COURSE: Emergency Response to Terrorism - Tactical Considerations for EMS

This 15-hour course, sponsored by the Federal Emergency Management Agency (FEMA), prepares EMS personnel to recognize a terrorist event, anticipate unusual response circumstances, take corrective actions and determine strategies for survival. Department of Justice or Office of Firefighter Training certificate is required to obtain pre-approved credits for fire personnel; SWM certificate required for non-fire EMS personnel.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Anatomy & Physiology	1		1		1		1	
	Pharmacology							1	
<i>Patient Assessment</i>	Communications	1		1		1		1	
	Patient Assessment	1		1		1		1	
<i>Medical</i>	Poisons/Substance Abuse	1		1		1		1	
	Environmental Emerg	1		1		1		1	
	Respiratory	1		1		1		1	
<i>Operations</i>	EMS Systems Operation	2		2		2		2	
	Hazardous Materials	1		1		1		1	
	Disaster Planning	2		2		2		2	
TOTAL CREDITS		12		12		12		12	

COURSE: Emergency Response to Terrorism - Tactical Considerations: Hazardous Materials

This 15-hour course, sponsored by the Federal Emergency Management Agency (FEMA), prepares Hazardous Materials trained personnel responding to a terrorist event in developing initial tactical considerations. Department of Justice or Office of Firefighter Training certificate is required to obtain pre- approved credits.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Anatomy & Physiology	1		1		1		1	
<i>Patient Assessment</i>	Communications	1		1		1		1	
<i>Medical</i>	Poisons/Substance Abuse	1		1		1		1	
	Environmental Emerg	2		2		2		2	
<i>Operations</i>	EMS Systems Operation	2		2		2		2	
	Hazardous Materials	3		6		6		6	
	Disaster Planning	2		2		2		2	
TOTAL CREDITS		12		15		15		15	

COURSE: Emergency Vehicle Operation Course (EVOC)

The intent of this course, developed by Ambulance Insurance Services, Inc., is to make students aware of potential tragedy, financial loss, legal consequences and moral responsibilities which can result from the operation of an emergency vehicle. The course varies in hours, and its main focus is on EMS safety and scene operations. Both classroom presentations and skill sessions are part of the curriculum. This course meets the MDCH Agency Inspection requirement for department approved vehicle operation education and competency assessment

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Communicable Disease	1		1		1		1	
	Patient Handling	1		1		1		1	
<i>Operations</i>	Emergency Driving	2		2		2		2	
	EMS Systems Operation	1		1		1		1	
TOTAL CREDITS		5		5		5		5	

COURSE: Epi-Pen Curriculum Certification and Re-certification

This course is required prior to implementation of an Epinephrine administration program within individual Medical Control Authorities. The minimum training guidelines established by MDCH include general procedures, patient treatment protocols, and procedures for Epi-Pen usage as found in the Basic EMT Initial Training curriculum. Re-certification frequency is determined by the Medical Control Authority.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Medical</i>	Respiratory	2		2		2		2	
<i>Trauma</i>	Shock	1		1		1		1	
TOTAL CREDITS		3		3		3		3	

COURSE: First Trauma Care

This one day course addresses the prioritized assessment and intervention for the adult trauma victim. First Trauma Care has a pre-course study component, lectures, and skill stations that emphasize prioritized assessment and hands-on practical teaching. This course is designed primarily for Medical First Responders and Basic EMT's. Specialists and Paramedics must complete an additional ALS skills module to receive all credits.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1	2	1	2	2	2	2	2
<i>Airway/Ventilation</i>	Airway Basic		1		1		1		1
	Airway Advanced					1	1	1	1
<i>Trauma</i>	Shock		1		1		1		1
	Spinal Injury/Backboarding		1		1		1		1
	CNS Injury		1		1		1		1
	Chest Injury	1		1		1		1	
<i>Special Considerations</i>	Pediatrics	1		1		1		1	
TOTAL CREDITS		3	6	3	6	5	7	5	7

COURSE: First Trauma Care Instructor Course

This one day course prepares providers to instruct at FTC Courses.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	2		2		2		2	
<i>Airway/Ventilation</i>	Airway/02 Basic	1		1		1		1	
<i>Trauma</i>	Spinal Injury/Backboarding	1		1		1		1	
TOTAL CREDITS		4		4		4		4	

Instead of provider credits, I/Cs have the option of taking IC Credits:

<i>Instructor Coordinator Topic</i>	Credits
<i>Measurement and Evaluation</i>	2
<i>Instructional Techniques</i>	2

COURSE: Geriatric Education for EMS

This one day course for BLS providers, or one and one-half day course for ALS providers, is sponsored by the American Geriatric Society and National Council of State EMS Training Coordinators.

One day course:

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Communications	1		1					
	Patient Assessment	1	1	1	1				
<i>Medical</i>	Cardiac Basic	1		1					
<i>Trauma</i>	Musculoskeletal	1		1					
	CNS Injury	1		1					
<i>Special Considerations</i>	Geriatrics	2		2					
<i>Operations</i>	EMS Systems Ops	1		1					
TOTAL CREDITS		8	1	8	1				

One and one half day ALS Course:

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Pharmacology					1		1	
<i>Patient Assessment</i>	Communications					1		1	
	Patient Assessment					1	1	1	1
<i>Medical</i>	Cardiac Basic					1		1	
<i>Trauma</i>	Musculoskeletal					1		1	
	CNS Injury					1		1	
<i>Special Considerations</i>	Geriatrics					2		2	
<i>Operations</i>	EMS Systems Operations					1		1	
TOTAL CREDITS						9	1	9	1

Hazardous Materials Courses:**COURSE: Basic Life Support & Hazardous Materials Response**

This 12-hour course, sponsored by the Federal Emergency Management Agency (FEMA) that is available through the Michigan Office of Firefighter Training, emphasizes critical concerns for emergency medical responders at hazardous materials incidents.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	2		2		2		2	
<i>Operations</i>	Disaster Planning	3		3		3		3	
	Hazardous Materials	2		2		2		2	
	EMS Systems Operations	2		2		2		2	
TOTAL CREDITS		9		9		9		9	

COURSE: First Responder Hazardous Materials - Awareness Level

This 4-1/2 hour course is the first level of training in Hazardous Materials. Emphasis is on identification and recognition of HazMat incidents. This course is taught through the Office of Firefighter Training, and an OFFT certificate is required to receive pre-approved credits. Two year certification.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Operations</i>	Disaster Planning	2		2		2		2	
	Hazardous Materials	2		2		2		2	
TOTAL CREDITS		4		4		4		4	

COURSE: First Responder Hazardous Materials - Operations Level

This twenty four hour course is the second level of Hazardous Materials training. This course is also taught through the Office of Firefighter Training, and an OFFT certificate is required to document completion.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling			1		1		1	
<i>Medical</i>	Environmental Emerg	1		1		1		1	
<i>Operations</i>	Disaster Planning	2		2		2		2	
	Hazardous Materials		2		2		2		2
	EMS Systems Operations		1	1	1	1	1	1	1
TOTAL CREDITS		3	3	5	3	5	3	5	3

COURSE: Hazardous Materials - Technician/Specialist Level

These comprehensive Hazardous Materials Courses contains a review of the content in the Awareness and Operations level courses and include extensive instruction in the chemistry and toxicology of hazardous materials. Considering these advanced courses do not contain any additional prehospital curriculum, EMS providers completing either of these courses will be awarded the credits for the Operations level of training.

Hazardous Materials Refresher Courses must be submitted by a licensed IC to the regional coordinator for continuing education credit approval.

COURSE: Health and Safety Officer

This 18-1/2 hour course, sponsored by the Federal Emergency Management Agency (FEMA) and delivered through the Office of Firefighter Training, prepares participants to identify and analyze health and safety aspects that affect emergency responder safety in emergency and non-emergency situations. An OFFT or FEMA certificate is required.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	2		2		2		2	
	Communicable Disease	2		2		2		2	
<i>Medical</i>	Environmental Emerg	1		1		1		1	
<i>Operations</i>	EMS Systems Operations	2		2		2		2	
	Rescue Extrication	2		2		2		2	
TOTAL CREDITS		9		9		9		9	

COURSE: Incident Command System for EMS

See NIMS National Incident Management System
ICS for EMS, Police, Fire

COURSE: Initial Emergency Driving Safety Course

This one day course is sponsored by T.E.A.M. Driving Concepts, Inc. It includes lectures, practical driving skills, and on-the-job performance evaluation. This course meets the MDCH Agency Inspection requirement for department approved vehicle operation education and competency assessment

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Medical Legal	1		1		1		1	
	Patient Handling	1		1		1		1	
<i>Patient Assessment</i>	Communications	1		1		1		1	
<i>Operations</i>	Emergency Driving	1	3	1	3	1	3	1	3
	EMS Operations	2		2		2		2	
TOTAL CREDITS		6	3	6	3	6	3	6	3

COURSE: Instructor Techniques Course (6th edition)

This 40 hour course for instructors is sponsored by APCO Institute, the educational subsidiary of Association of Public Safety Communications Officials International. It covers adult learning, instructional process, simulations, testing, and legal issues. A final exam is sent to APCO for scoring and then a certificate is issued.

IC's will receive the following credits:

<i>Instructor Coordinator Topic</i>	Credits
<i>Instructional Techniques</i>	12
<i>Measurement and Evaluation</i>	5
<i>Educational Administration</i>	5

COURSE: International Trauma Life Support (ITLS) (formerly BTLS)

This course presents the skills necessary for thorough assessment, initial resuscitation, stabilization, and transport of the trauma victim. In addition, the course also stresses those conditions that require urgent surgical attention and thus demand immediate transport. ITLS emphasizes a rapid, organized approach to the trauma victim. Certification is four years.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	IV Therapy						1		1
<i>Patient Assessment</i>	Patient Assessment	1	2	1	2	1	2	1	2
<i>Airway/Ventilation</i>	Airway Basic	1	1	1	1	1		1	
	Airway Advanced						1		1
<i>Trauma</i>	Shock	1	1	1	1	1	1	1	1
	Spinal Injury/Backboarding		1		1		1		1
	Bleeding/Soft Tissue		1		1		1		1
	Burns	1		1		1		1	
	CNS Injury		1		1		1		1
	Chest Injury	1		1		1		1	
	Musculoskeletal		1		1		1		1
<i>Special Considerations</i>	Pediatrics		1		1		1		1
<i>Operations</i>	Rescue/Extrication		1		1		1		1
TOTAL CREDITS		5	10	5	10	5	11	5	11

COURSE: International Trauma Life Support (ITLS) Recertification

This 4 hour minimum course reviews the ITLS curriculum utilizing lectures, scenarios, and written and practical testing. Re-certification is available at the Specialist and Paramedic levels only. (Four years)

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1	1	1	1	1	1	1	1
<i>Airway/Ventilation</i>	Airway Basic	1		1					
	Airway Advanced					1		1	
<i>Trauma</i>	Spinal Injury/Backboarding		1		1		1		1
<i>TOTAL CREDITS</i>		2	2	2	2	2	2	2	2

COURSE: ITLS Instructor Course

This one-day course sponsored by BTLS is designed to train participants in the basics of teaching ITLS and focuses on teaching testing techniques.

Instructor Coordinator Topics	Credits
Instructional Techniques	3
Measurement & Evaluation	2
Education Administration	2

COURSE: International Trauma Life Support (ITLS) Access

This 1 day course is designed to train participants in the basics of gaining access to trauma victims involved in motor vehicle collisions. The course consists of lecture and practical stations.

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	2		2		2		2	
<i>Operations</i>	Rescue Extrication	3		3		3		3	
<i>TOTAL CREDITS</i>		5		5		5		5	

COURSE: Landing Zone Course

This 2-3 hour course was developed by the National Association of EMS Pilots for those providers who are responsible for establishing a helicopter landing zone. The course covers geographic considerations, wind direction, and safety around aircraft. Certificate from an air-medical group doing instruction.

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
<i>Operations</i>	EMS Systems Operations	1		1		1		1	
<i>TOTAL CREDITS</i>		2		2		2		2	

COURSE: Michigan Urban Search and Rescue

This urban search and rescue program was developed by Michigan State Police, Hazardous Materials Training Center. It contains 5 courses.

1. **Rope Intermediate (Rope II)** - 30 hour course, Patient packaging, safe raising and lowering techniques.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	2		2		2		2	
<i>Patient Assessment</i>	Patient Assessment	2	1	2	1	2	1	2	1
	Communications	1		1		1		1	
<i>Airway/Ventilation</i>	Airway/O2 Basic	1		1		1		1	
<i>Trauma</i>	Spinal Injury/Backboarding	2	1	2	1	2	1	2	1
<i>Operations</i>	Hazardous Materials	1		1		1		1	
TOTAL CREDITS		9	2	9	2	9	2	9	2

2. **Collapse - Light/Medium** - 40 hour course, Rescue in structural collapse incidents.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
<i>Patient Assessment</i>	Patient Assessment	1	1	1	1	1	1	1	1
	Communications	3		3		3		3	
<i>Trauma</i>	Spinal Injury/Backboarding	1	1	1	1	1	1	1	1
<i>Operations</i>	Hazardous Materials	2		2		2		2	
	Rescue/Extrication	2		2		2		2	
TOTAL CREDITS		10	2	10	2	10	2	10	2

3. **Confined Space Rescue** - 30 hour course, Confined Space rescue techniques and apparatus.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
<i>Airway/Ventilation</i>	Airway/O2 Basic	1		1		1		1	
<i>Patient Assessment</i>	Patient Assessment	2	1	2	1	2	1	2	1
	Communications	1	1	1	1	1	1	1	1
<i>Trauma</i>	Spinal Injury/Backboarding	1	1	1	1	1	1	1	1
<i>Operations</i>	Hazardous Materials	3		3		3		3	
	Rescue/Extrication	1		1		1		1	
TOTAL CREDITS		10	3	10	3	10	3	10	3

4. **Trench Rescue, Intermediate** - 24 hour course, Victim removal/recovery from variety of trenches.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
<i>Patient Assessment</i>	Patient Assessment	2	1	2	1	2	1	2	1
	Communications	1	1	1	1	1	1	1	1
<i>Trauma</i>	Spinal Injury/Backboarding	1	1	1	1	1	1	1	1
<i>Operations</i>	Hazardous Materials	2		2		2		2	
	Rescue/Extrication	1		1		1		1	
TOTAL CREDITS		8	3	8	3	8	3	8	3

5. **Trench Rescue, Advanced** - 40 hour course, additional scenarios of trench rescue.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
<i>Patient Assessment</i>	Patient Assessment	2	1	2	1	2	1	2	1
	Communications	1	1	1	1	1	1	1	1
<i>Trauma</i>	Spinal Injury/Backboarding	1	2	1	2	1	2	1	2
<i>Operations</i>	Hazardous Materials	2		2		2		2	
	Rescue/Extrication	1		1		1		1	
TOTAL CREDITS		8	4	8	4	8	4	8	4

National Incident Management System (NIMS)

COURSE: Incident Command System for EMS, Fire and Law Enforcement Personnel

This 14-hour classroom course, sponsored by the Federal Emergency Management Agency (FEMA), delivered through the Department of Homeland Security and National Fire Academy teaches the participant to implement an Incident Command System. This course is available from Michigan Office of Firefighter Training or Michigan Department of Community Health.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Communications	4		4		4		4	
<i>Operations</i>	Disaster Planning	4		4		4		4	
	EMS Systems Operations	4		4		4		4	
TOTAL CREDITS		12		12		12		12	

Course: Unified Incident Command

This two day course is part of the National Incident Management System and is sponsored by Michigan State Police Hazardous Materials Training Center. These credits are approved for the two-day course only, NOT for the on-line program.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Patient Handling	1		1		1		1	
	Stress Management	1		1		1		1	
	Med Legal	1		1		1		1	
<i>Patient Assessment</i>	Patient Assessment	2		2		2		2	
	Communications	2		2		2		2	
<i>Operations</i>	EMS Systems Operations	3		3		3		3	
	Disaster Planning	3		3		3		3	
	Hazardous Materials	1		1		1		1	
TOTAL CREDITS		14		14		14		14	

COURSE: Neonatal Resuscitation Course

This course, sponsored by the American Heart Association, is intended to set a standard of care for individuals caring for neonates requiring resuscitation following delivery. Certification is two years.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Anatomy & Physiology	1		1		1		1	
	Pharmacology							1	
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
<i>Airway/Ventilation</i>	Airway/O2 Basic		1		1				
	Airway/O2 Advanced						1		1
<i>Medical</i>	Respiratory	1		1		1		1	
	OB/GYN	1		1	1	1	1	1	1
<i>Special Considerations</i>	Pediatrics		1		1		1		1
TOTAL CREDITS		4	2	4	3	4	3	5	3

COURSE: Pediatric Advanced Life Support (PALS) Initial and Re-certification

This course, sponsored by the American Heart Association, covers all phases of Emergency Cardiac Care for infants and children. Emphasis parallels ACLS objectives. Certification is for two years.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment				1		1		1
<i>Airway/Ventilation</i>	Airway/O2 Basic			1		1		1	
<i>Medical</i>	Cardiovascular - Basic			1		1		1	
	Cardiovascular Advanced							1	
<i>Special Considerations</i>	Pediatrics				1		1		1
TOTAL CREDITS				2	2	2	2	3	2

COURSE: PALS Instructor Course

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Airway/Ventilation</i>	Airway/O2 Basic			1		1		1	
<i>Special Considerations</i>	Pediatrics			1		1		1	
TOTAL CREDITS				2		2		2	

I/C's will also receive the following credits:

Instructor Coordinator Topics	Credits
Instructional Techniques	3
Measurement & Evaluation	2
Education Administration	2

COURSE: Pediatric Basic Trauma Life Support

This one-day Pediatric BTLS Course is sponsored by the Michigan Chapter of Basic Trauma Life Support.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
	Communications	1		1		1		1	
<i>Airway/Ventilation</i>	Airway Basic	1		1		1		1	
<i>Trauma</i>	Shock	1		1		1		1	
	Spinal Injury/Backboarding	1		1		1		1	
	CNS Injury	1		1		1		1	
<i>Special Considerations</i>	Pediatrics	1		1		1		1	
TOTAL CREDITS		7		7		7		7	

COURSE: Pediatric Education for Pre-Hospital Professionals (PEPP)

The PEPP course, sponsored by the American Academy of Pediatrics, is a comprehensive and highly visual pediatric course for both BLS and ALS providers with case-based lectures, live action videos, hands-on skill stations, and scenarios. The one-day BLS course has been specifically designed for First Responders, and EMT's. The two-day ALS course is geared toward EMT-Specialists and Paramedics.

One day BLS Course:

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
<i>Airway/Ventilation</i>	Airway/O2 Basic		1		1		1		1
<i>Medical</i>	Respiratory	1		1		1		1	
	OB/GYN	1		1		1		1	
<i>Trauma</i>	Bleeding/Soft Tissue	1		1		1		1	
<i>Special Considerations</i>	Pediatrics	1	1	1	1	1	1	1	1
TOTAL CREDITS		5	2	5	2	5	2	5	2

PEPP Two day ALS Course:

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	IV Therapy					1		1	
<i>Patient Assessment</i>	Patient Assessment					1		1	
<i>Airway/Ventilation</i>	Airway/O2 Basic					1		1	
	Airway/O2 Advanced						1		1
<i>Medical</i>	Cardiovascular Basic					1			
	Cardiovascular Advanced							1	
	Respiratory					1		1	
	OB/GYN					1		1	
<i>Trauma</i>	Bleeding/Soft Tissue					1		1	
<i>Special Considerations</i>	Pediatrics					3	1	3	1
TOTAL CREDITS						10	2	10	2

PEPP One day Classroom Renewal Course:

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	IV Therapy					1		1	
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
<i>Airway/Ventilation</i>	Airway/O2 Basic		1		1				
	Airway/O2 Advanced						1		1
<i>Medical</i>	Cardiovascular Basic	1		1		1		1	
<i>Special Considerations</i>	Pediatrics		1		1		1		1
TOTAL CREDITS		2	2	2	2	3	2	3	2

COURSE: Pre-Hospital Trauma Life Support (PHTLS)

This course is sponsored by the National Association of Emergency Medical Technicians in cooperation with the Committee on Trauma of the American College of Surgeons. The course emphasizes treatment, stabilization, and rapid transportation for trauma patients. Certification is four years.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	IV Therapy					1		1	
<i>Patient Assessment</i>	Patient Assessment		2		2		2		2
<i>Airway/Ventilation</i>	Airway Basic		1		1				
	Airway Advanced						1		1
<i>Trauma</i>	Shock	1		2		2		2	
	Spinal Injury/Backboarding		2		2		2		2
	Abdominal Injury	1		1		1		1	
	Bleeding/Soft Tissue	1		1		1		1	
	Burns	1		1		1		1	
	CNS Injury	1		1		1		1	
	Chest Injury	1		1		1		1	
	Musculoskeletal	1		1		1		1	
<i>Special Considerations</i>	Pediatrics		1		1		1		1
<i>Operations</i>	Rescue/Extrication			1		1		1	
TOTAL CREDITS		7	6	9	6	10	6	10	6

COURSE: Pre-Hospital Trauma Life Support (PHTLS) Refresher

This one day (8 hour) refresher course is done every four years.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1	1	1	1	1	1	1	1
<i>Airway/Ventilation</i>	Airway Basic		1		1				
	Airway Advanced						1		1
<i>Trauma</i>	Spinal Injury/Backboarding		1		1		1		1
	Abdominal Injury	1		1		1		1	
	Chest Injury	1		1		1		1	
<i>Special Considerations</i>	Geriatrics	1		1		1		1	
	Pediatrics	1		1		1		1	
TOTAL CREDITS		5	3	5	3	5	3	5	3

COURSE: PHTLS Instructor Course

Instructor Coordinator Topics	Credits
Instructional Techniques	2
Measurement & Evaluation	2
Education Administration	2

COURSE: Project Brain Save

This course was developed by St. Joseph Mercy Oakland with grant support from Michigan Department of Community Health. The published CE is to be used for presentations. The full version of the program is 4 hours and has been developed for use by initial training programs. The CE version is two hours in length. Either version may be used for continuing education programs. The pre and post test should be used with either program.

Full course:

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
Preparatory	A & P	1		1		1		1	
Patient Assessment	Patient Assessment	1		1		1		1	
Medical	CNS Illness	2		2		2		2	
TOTAL CREDITS		4		4		4		4	

CE Version:

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
Patient Assessment	Patient Assessment	1		1		1		1	
Medical	CNS Illness	1		1		1		1	
TOTAL CREDITS		2		2		2		2	

COURSE: Public Information, Education, and Relations (PIER)

This one-day program was developed by the National Highway Traffic Safety Administration to assist EMS personnel with public and media contact.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
Preparatory	Patient Handling	2		2		2		2	
	Stress Management	1		1		1		1	
Medical	Behavioral Emergencies	2		2		2		2	
Operations	EMS Systems Operations	2		2		2		2	
TOTAL CREDITS		7		7		7		7	

COURSE: Stroke: "Acute Stroke Update for EMS"

This two -hour presentation sponsored by the American Stroke Association, a division of AHA, provides updated information on the causes and current intervention for patients potentially experiencing a stroke.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
Medical	CNS Illness	2		2		2		2	
TOTAL CREDITS		2		2		2		2	

COURSE: Prehospital Management of Traumatic Brain Injury (TBI)

This course is sponsored by the Brain Trauma Foundation, New York. It provides a consistent standardized knowledge base and approach to trauma brain injuries.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
<i>Medical</i>	CNS Illness	2		2		2		2	
<i>Special Considerations</i>	Pediatrics	1		1		1		1	
TOTAL CREDITS		4		4		4		4	

COURSE: Trauma Nurse Core Curriculum (TNCC)

This course is sponsored by the Emergency Nurses Association. It provides a consistent standardized knowledge base and approach to trauma care. Certification is four years.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment			1	3	1	3	1	3
<i>Airway/Ventilation</i>	Airway Basic				2		1		1
	Airway Advanced						1		1
<i>Medical</i>	Behavioral Emergencies			1		1		1	
<i>Trauma</i>	Shock			2		2		2	
	Spinal Injury/Backboarding				2		2		2
	Abdominal Injury			1		1		1	
	Burns			1		1		1	
	Chest Injury			1		1		1	
	CNS Injury			1		1		1	
	Musculoskeletal			1		1		1	
	TOTAL CREDITS				9	7	9	7	9

COURSE: Urban Search and Rescue Medical Specialist Course

This is a 40 hour course for paramedic urban search and rescue teams, sponsored by FEMA. The class may be only be taught by FEMA approved providers, Texas A & M University or Virginia Beach Fire/Rescue. A FEMA approved certificate is required to receive pre-approved credits.

Category	Topic	MFR		EMT		Specialist		Paramedic	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Injury Prevention							2	
	Stress Management							1	
	IV Therapy							2	2
	Pharmacology								1
<i>Patient Assessment</i>	Patient Assessment							1	3
<i>Airway/Ventilation</i>	Airway Basic								1
	Airway Advanced								2
<i>Trauma</i>	Shock							2	2
	Spinal Injury/Backboarding								1
	Musculoskeletal								1
<i>Operations</i>	Disaster Planning							5	
	Triage							1	1
	Extrication							2	1
	EMS Systems Operations							2	
TOTAL CREDITS							18	15	

COURSE: Vehicle Extrication Course

This 12-hour course, sponsored by the Office of Firefighter Training, teaches the basic principles of vehicle extrication. An OFFT certificate is required to receive pre-approved credits.

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Preparatory</i>	Stress Management	1		1		1		1	
	Patient Handling	2		2		2		2	
<i>Patient Assessment</i>	Patient Assessment		1		1		1		1
	Communications		1		1		1		1
<i>Trauma</i>	Spinal Injury/Backboarding	1		1		1		1	
<i>Operations</i>	Disaster Planning	1		1		1		1	
	Rescue/Extrication	1	2	3	2	3	2	3	2
<i>TOTAL CREDITS</i>		6	4	8	4	8	4	8	4

Weapons of Mass Destruction Courses also see NIMS or CBRNE programs

COURSE: Weapons of Mass Destruction: Radiological/Nuclear Awareness

This course sponsored by Office of Domestic Preparedness, Department of Justice, is offered by Michigan State Police Hazardous Materials Training Center.

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Medical</i>	Environmental	3		3		3		3	
<i>Operations</i>	Hazardous Materials	1		1		1		1	
	Disaster Planning	1		1		1		1	
<i>TOTAL CREDITS</i>		5		5		5		5	

COURSE: When Seizures Are Medical Emergencies

This approximately 3-hour program, developed by the Epilepsy Foundation of Minnesota, St. Paul, MN, covers the recognition, assessment, and treatment of status epilepticus. The program includes a video, workbook, and test bank and can be conducted as a classroom presentation or self-study program.

<i>Category</i>	<i>Topic</i>	<i>MFR</i>		<i>EMT</i>		<i>Specialist</i>		<i>Paramedic</i>	
		L	P	L	P	L	P	L	P
<i>Patient Assessment</i>	Patient Assessment	1		1		1		1	
<i>Medical</i>	CNS Illness	2		2		2		2	
<i>TOTAL CREDITS</i>		3		3		3		3	

On-Line C.E. Credits

The following on-line programs have been approved by MDCH to provide Michigan continuing education credits. The site will provide verification of completion.

1. CE Solutions
www.ems-ce.com
2. Emscert, Inc.
www.emscert.com
3. HealthStream
www.healthstream.com/ems
4. Michigan EMS Education
www.miemseducation.com
5. MedicEd.com
www.mediced.com
6. NDMS
www.ndms.umbc.edu
Note: Site restricted to NDMS/DMAT members only
7. EASY IC EMS
www.easyic.net
Note: Instructor Coordinator credits
8. Target Safety
www.targetsafety.com

MEDICAL FIRST RESPONDERS COMPLETING A BASIC EMT COURSE

Medical First Responders who successfully complete a Basic EMT course and are eligible for the Basic EMT Licensing Exam can be awarded all of the continuing education credits toward MFR license renewal if desired.

MFR's who complete a Basic EMT course and are not eligible for the licensing exam can be awarded continuing education credits toward MFR license renewal by submitting written endorsement of course completion from their Program Sponsor Representative or Program Course Coordinator. The endorsement must include the Program Sponsor name and date of course completion.

BASIC EMTs COMPLETING A PARAMEDIC COURSE

Basic EMTs who successfully complete a Paramedic course and are eligible for the Paramedic Licensing Exam can be awarded all of the continuing education lecture and practical credits toward Basic EMT license renewal if desired.

Basic EMT's who complete a paramedic course and are not eligible for the licensing exam can be awarded all continuing education lecture and practical credits toward EMT license renewal by submitting written endorsement of Paramedic course completion from their Program Sponsor Representative or Program Course Coordinator. The endorsement must include the Program Sponsor name and date of course completion.

BASIC EMTs COMPLETING A SPECIALIST COURSE

Basic EMT's who successfully complete a Specialist course and are eligible for the Specialist Licensing Exam can be awarded the following credits toward Basic EMT license renewal if desired.

Basic EMT's who complete a Specialist course and are not eligible for the licensing exam can be awarded continuing education credits toward EMT license renewal by submitting written endorsement of Specialist course completion from their Program Sponsor Representative or Program Course Coordinator. The endorsement must include the Program Sponsor name and date of course completion.

<i>Category</i>	<i>Topic</i>	<i>EMT</i>	<i>Lecture</i>	<i>Practical</i>
<i>Preparatory</i>	Anatomy/Physiology		1	
	Med/Legal		1	
	Patient Handling		1	1
<i>Patient Assessment</i>	Patient Assessment/Triage		1	1
	Communications		2	
<i>Airway/Ventilation</i>	Airway/O2 – Basic		1	1
<i>Medical</i>	Cardiovascular – Basic		1	
	Respiratory		2	
	Abdominal Illness		1	
	Diabetic Emergencies		1	
	CNS Illness		1	
	Environmental Emergencies		1	
	<i>Trauma</i>	Shock		2
IV Maintenance			2	
Chest Injury			1	
Musculoskeletal			0	1
<i>Operations</i>	EMS Systems Operations		2	
<i>TOTAL CREDITS</i>			21	4

SPECIALISTS COMPLETING A PARAMEDIC COURSE

EMT-Specialists who successfully complete a Paramedic course and are eligible for the Paramedic Licensing Exam can be awarded all of the continuing education lecture and practical credits toward Specialist license renewal if desired.

EMT-Specialists who complete a Paramedic course and are not eligible for the licensing exam can be awarded all continuing education lecture and practical credits toward Specialist license renewal by submitting written endorsement of Paramedic course completion from their Program Sponsor Representative or Program Course Coordinator. The endorsement must include the Program Sponsor name and date of course completion.

APPENDICES

Conversion Document Medical First Responder and Basic EMT
Michigan EMS Continuing Education Credits to National Curriculum Topic Areas

National Curriculum Topic Category	Michigan CE Topic		Possible CE or Refresher Topics
	MFR	Basic EMT	
Preparatory			
	A & P	A & P	Anatomy, Physiology, Pathophysiology
	Communicable Disease	Communicable Disease	PPE, BSI, Disease Prevention, Managing Exposure
	Injury Prevention	Injury Prevention	Injury Prevention, Personnel Safety
		IV Maintenance	Maintaining an established IV
	Medical- Legal	Medical- Legal	Medical- Legal, Ethics
	Basic Pharmacology	Basic Pharmacology	General (Basic) Pharmacology
	Patient Handling	Patient Handling	Lifting and Moving
	Stress Management	Stress Management	Stress Management, CISD, Death-Dying, Well Being of the EMS Provider, Nutrition, Fitness, Sleep
Airway Management Ventilation			
	Airway Oxygen Basic	Airway Oxygen Basic	Basic Airway skills, Combitube, Ventilation, BLS Procedures
Patient Assessment			
	Patient Assessment	Patient Assessment	Patient Assessment, Baseline Vitals and SAMPLE History, Techniques of Physical Exam, Clinical Decision Making
	Communications	Communications	Therapeutic Communications Radio Comm., Documentation
Medical			
	Abdominal Illness	Abdominal Illness	Gastroenterology, Renal/Urology
	Behavioral Emergencies	Behavioral Emergencies	Behavioral, Psychiatric, Mental Health
	Cardiovascular Basic	Cardiovascular Basic	General Cardiology, AED
	CNS Illness	CNS Illness	Neurology, Stroke, CNS Illnesses
	Diabetic Emergencies	Diabetic Emergencies	Diabetes, Altered Mental Status
	Environmental Emergencies	Environmental Emergencies	Heat/Cold Emergencies, Water Rescue, Drowning, Diving Emergencies, Altitude Emergencies, Radiation
	OB/GYN	OB/GYN	Obstetrics, Gynecological Emergencies
	Poisons	Poisons	Poisons, Toxicology, Substance Abuse
	Respiratory Emergencies	Respiratory Emergencies	Respiratory, Pulmonary
			Allergies/ Anaphylaxis

National Curriculum Topic Category	Michigan CE Topic		Possible CE or Refresher Topics
	MFR	Basic EMT	
Trauma			
	Abdominal Injury	Abdominal Injury	Abdominal Injury
	Bleeding, Soft Tissue Injuries	Bleeding, Soft Tissue Injuries	Bleeding, Soft Tissue Injury, Facial, Eye
	Burns	Burns	Burns
	Chest Injuries	Chest Injuries	Chest Injuries, Thoracic
	CNS Injuries	CNS Injuries	Head and Spinal Injuries
	Musculoskeletal Injuries	Musculoskeletal Injuries	Musculoskeletal Injuries
	Shock	Shock	Shock
	Spinal Injury-Backboarding	Spinal Injury-Backboarding	Spinal Injuries, Immobilization, Spinal Motion Restriction
			Trauma systems, Mechanism of Injury
Special Considerations			
	Geriatrics	Geriatrics	Geriatrics
	Pediatrics	Pediatrics	Neonatology, Pediatrics, SIDS
			Abuse, Assault, Patients with Special Challenges, Acute Interventions for Chronic Care Patient
			Assessment Based Patient Management
Operations			
	Disaster Planning	Disaster Planning	Disaster Planning, Medical Incident Command, Triage, WMD, Terrorism
	Emergency Driving	Emergency Driving	Safe Emergency Driving
	EMS Systems Operations	EMS Systems Operations	Ambulance Operations, Medical Control Issues, Crime Scene Awareness
	Hazardous Materials	Hazardous Materials	Hazardous Materials
	Rescue/Extrication	Rescue/Extrication	Rescue Awareness and Operations, PPE, Confined Space

Conversion Document Specialist and Paramedic
Michigan EMS Continuing Education Credits to National Curriculum Topic Areas

National Curriculum Topic Category	Michigan CE Topic		Possible CE or Refresher Topics
	Specialist	Paramedic	
Preparatory			
	A & P	A & P	Anatomy, Physiology, Pathophysiology
	Communicable Disease	Communicable Disease	PPE, BSI, Disease Prevention, Managing Exposure
	Injury Prevention	Injury Prevention	Injury Prevention, Personnel Safety
	IV Therapy	IV Therapy	Venous Access and Medication Administration
	Medical- Legal	Medical- Legal	Medical- Legal, Ethics
	Patient Handling	Patient Handling	Lifting and Moving
	Basic Pharmacology		General (Basic) Pharmacology
		Pharmacology	Pharmacology
	Stress Management	Stress Management	Stress Management, CISD, Death-Dying, Well Being of the EMS Provider, Nutrition, Fitness, Sleep
Airway Management Ventilation			
	Airway Oxygen Basic	Airway Oxygen Basic	Basic Airway skills, Combitube, Ventilation, BLS Procedures
	Airway Oxygen Advanced	Airway Oxygen Advanced	Advanced Airway Management, Ventilation skills, Sedation, RSI
Patient Assessment			
	Patient Assessment	Patient Assessment	Patient Assessment, Baseline Vitals and SAMPLE History, Techniques of Physical Exam, Clinical Decision Making
	Communications	Communications	Therapeutic Communications Radio Comm., Documentation
Medical			
	Abdominal Illness	Abdominal Illness	Gastroenterology, Renal/Urology
	Behavioral Emergencies	Behavioral Emergencies	Behavioral, Psychiatric, Mental Health
	Cardiovascular Basic	Cardiovascular Basic	General Cardiology, AED
		Cardiovascular Advanced	EKG interpretation, Manual defib, Pacing, Cardioversion
	CNS Illness	CNS Illness	Neurology, Stroke, CNS Illnesses
	Diabetic Emergencies	Diabetic Emergencies	Diabetes, Altered Mental Status
	Environmental Emergencies	Environmental Emergencies	Heat/Cold Emergencies, Water Rescue, Drowning, Diving Emergencies, Altitude Emergencies, Radiation
	OB/GYN	OB/GYN	Obstetrics, Gynecological Emergencies

National Curriculum Topic Category	Michigan CE Topic		Possible CE or Refresher Topics
	Specialist	Paramedic	
Medical Continued			
	Poisons	Poisons	Poisons, Toxicology, Substance Abuse
	Respiratory Emergencies	Respiratory Emergencies	Respiratory, Pulmonary
			Endocrine, Hematology, Allergies/ Anaphylaxis
Trauma			
	Abdominal Injury	Abdominal Injury	Abdominal Injury
	Bleeding, Soft Tissue Injuries	Bleeding, Soft Tissue Injuries	Bleeding, Soft Tissue Injury, Facial, Eye
	Burns	Burns	Burns
	Chest Injuries	Chest Injuries	Chest Injuries, Thoracic
	CNS Injuries	CNS Injuries	Head and Spinal Injuries
	Musculoskeletal Injuries	Musculoskeletal Injuries	Musculoskeletal Injuries
	Shock	Shock	Shock, Fluids
	Spinal Injury-Backboarding	Spinal Injury-Backboarding	Spinal Injuries, Immobilization, Spinal Motion Restriction
			Trauma systems, Mechanism of Injury
Special Considerations			
	Geriatrics	Geriatrics	Geriatrics
	Pediatrics	Pediatrics	Neonatology, Pediatrics, SIDS
			Abuse, Assault, Patients with Special Challenges, Acute Interventions for Chronic Care Patient
			Assessment Based Patient Management
Operations			
	Disaster Planning	Disaster Planning	Disaster Planning, Medical Incident Command, Triage, WMD, Terrorism
	Emergency Driving	Emergency Driving	Safe Emergency Driving
	EMS Systems Operations	EMS Systems Operations	Ambulance Operations, Medical Control Issues, Crime Scene Awareness
	Hazardous Materials	Hazardous Materials	Hazardous Materials
	Rescue/Extrication	Rescue/Extrication	Rescue Awareness and Operations, PPE, Confined Space

Contact List C.E. Sponsors

American Academy of Pediatrics (PEPP) (Elk Grove, IL)	(847) 434-4000
American College of Emergency Physicians	(972) 550-0911
American Heart Association of Michigan	(800) 242-8721
American Red Cross	Call Local Chapter
American Stroke Association (Division of AHA) Michigan contact: Lisa Chote	(517) 349-3102
Arizona Emergency Medicine Research Center (AHLS)	(520) 626-2305
Association of Public Safety Communications Officials International (APCO) (EMD)	(386) 322- 2500
ITLS (BTLS) of Michigan (David Maatman)	(616) 776-1699 x 3151
Center for Domestic Preparedness (Anniston, AL)	(256) 847 2290
Emergency Nurses Association Michigan contact: Pat Manion	(810) 714-4016
Epilepsy Foundation of Minnesota (St. Paul, MN)	(800) 779-0777
Federal Emergency Management Agency (FEMA)	(800) 238-3358
First Trauma Care Contact Susan Boyd	(231) 941-2184
Geriatric Education for EMS Mike Scott Orion, MI	(248) 391 4670
Hazardous Materials Training Center, MI Department of State Police	(517) 322-1190
Initial Emergency Driving Safety Course Tom Mannisto T.E.A.M. Driving Concepts	(231) 362 3838
International Critical Incident Stress Foundation (Ellicott City, MD)	(410) 730-4311
Medical Priority Consultants (Salt Lake City, UT) (EMD) Michigan contact: Vicki Maguire	(810) 363-9127
Michigan Assoc. of Health Plans Foundation (Mary Joseph)	(517) 337-8146
Michigan Department of Community Health, EMS & Trauma Systems Section	(517) 241-0179
Michigan Farm Bureau	(517) 323-7000
Michigan Office of Fire Fighters Training	(517)241-8847
Michigan Health and Hospital Association	(517) 484-7441
Michigan Public Health Institute	(517) 324-7330
National Association of EMS Pilots Michigan Contact: Spectrum Aeromed	(616) 391-5318
National Association of Emergency Medical Technicians	(800) 94PHTLS
National Communications Institute (EMD)	(706) 216-0002
National Highway Traffic Safety Administration Michigan Contact: Office of Highway Safety Planning	(517) 333-5320
National Safety Council	(630) 285-1121
Occupational Research and Assessment, Inc.	(616) 796-2822

Pediatric Pre-Hospital Care (NREMT) Paul Sorrell (Affiliate Faculty)	(517) 552-9374
PowerPhone, Inc. (Madison, CT)	(800) 537-6937
Pre-Hospital Trauma Life Support (Dale Wilson)	(269) 641 8019
St. Joseph Mercy Oakland (John Devanzo)	(248) 858-3147
SWM Systems, Inc.	(269) 385-2806
UPEMS Corporation	(906) 228-4182
University of Maryland, Baltimore County Critical Care Paramedic Program	(410) 455-3223