

**Career-Technical Credit Transfer (CT)²
Advanced Emergency Medical Technician (AEMT) Career-Technical Assurance Guide (CTAG)
October 23, 2014**

The following programs/courses, indicated by a Career-Technical Articulation Number (CTAN), are eligible for granted college credit at state institutions of higher education for (CT)² approved programs/courses at adult career-technical education institutions. In addition, the following courses, indicated by a Career-Technical Articulation Number (CTAN), are eligible for transfer among approved programs/courses at state institutions of higher education.

CTEMS003 – Advanced Emergency Medical Technician (AEMT)	Credits: 8 Semester Hours
<p>Advising Notes: The EMS training program shall be conducted in accordance with the national EMS education standards approved by National Highway Traffic Safety Administration Standards (NHTSA), the education standards approved by the EMS board, and the scope of practice set forth in rule 4765-16-06 of the Ohio Administrative Code. The national EMS education standards approved by the (NHTSA) for EMS and the education standards approved by the board can be found at http://www.ems.ohio.gov/ems_education.stm (click on 03/19/2013 Approved Curriculum Standards).</p> <p>At the conclusion of the AEMT training program, the student will demonstrate entry level competency in the affective, psychomotor and cognitive domains related to each of the listed outcomes.</p> <p>Submitted course work must include proof of laboratory and clinical components.</p> <p>Prerequisite: Current Ohio Advanced EMT certification</p>	

Each CTAN identifies the learning outcomes that are equivalent or common in introductory technical courses. In order for students to be able to receive credit under these agreements, the career-technical programs and the state institutions of higher education must document that their course/program content matches the learning outcomes in the CTANs. In accordance with Ohio Revised Code 3333.162, industry standards and certifications provide documentation of student learning. Recognized industry standards are expectations established by business, industry, state agencies, or professional associations. These standards define training program curricular requirements, establish certification or licensure criteria, and often serve as the basis for program accreditation.

Requirements and Credit Conditions:

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| <ol style="list-style-type: none"> 1. The receiving institution must have a comparable program, major, or courses that have been approved through submission to the Ohio Board of Regents (CT)² approval process for the CTANs listed in this document. 2. Credits apply to courses in the specified technical area at Ohio's public institutions of higher education, provided that the institution offers courses in the specific technical area. In the absence of an equivalent course, and when the institution offers the technical |
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program, the receiving institution will guarantee to grant and apply an equivalent credit value of the Career-Technical Articulation Number (CTAN) toward the technical requirements of the specific degree/certificate program.

3. The applicant must provide proof to the receiving institution that she/he completed a course or program that has been approved through the (CT)² approval process and that she/he holds the appropriate credential or has passed the end-of-program assessment.
4. A career-technical student seeking credit under the terms of this CTAG must apply and be accepted to the college within the currency of the industry certificate or license.
5. A career-technical student who meets all eligibility criteria will receive the credit hour value for the comparable course(s) as offered at the receiving state institution of higher education.
6. The admission requirements of individual institutions and/or programs are unaffected by the implementation of (CT)² outcomes.
7. The transfer of credit through this CTAG will not exempt a student from the residency requirements at the receiving institution.

CTEMS003 – Advanced Emergency Medical Technician (AEMT)

General Course Description: Advanced Emergency Medical Technician specialized subject matter, laboratory, clinical and field experiences designed to prepare AEMT's to provide advanced life support in the pre-hospital phase of an emergency. Instruction includes patient assessment, trauma-triage, airway management, intravenous, intramuscular, and subcutaneous administration of medications, intravenous therapy, ECG monitoring and defibrillation, advanced study of the pathophysiology of illness and injuries, delivery and newborn care. The personnel trained may be members of fire departments, police departments, or other agencies that are involved in the emergency treatment and rescue of people.

Credits: 8 Semester Hours

Learning Outcomes:

Outcomes marked with an asterisk are essential and must be taught.

Note: In an effort to limit the size of the CTAG, listed outcomes summarize the specific behavioral objectives of the AEMT training course. For greater detail the reader is referred to http://www.ems.ohio.gov/ems_education.stm (click on 03/19/2013 Approved Curriculum Standards). AEMT students will need to know all material within the AEMT curriculum as well as that of the EMT and emergency medical responder.

- (1) Preparatory:*
- (2) Anatomy and physiology:*
- (3) Medical terminology:*
- (4) Pathophysiology:*
- (5) Life span development;
- (6) Public health:*
- (7) Pharmacology:*
- (a) Sublingual nitroglycerin;*
- (b) Dextrose in water;*

- (c) Epinephrine at the concentration of one to one thousand;*
 - (d) Diphenhydramine;*
 - (e) Benzodiazepines;*
 - (f) Bronchodilators;*
 - (g) Naloxone;*
 - (h) Glucagon;*
 - (i) Nitrous oxide;*
 - (j) Nalbuphine;*
 - (k) Narcotics or other analgesics for pain relief;*
 - (l) Lidocaine, for pain relief after intraosseous infusion;*
 - (m) Any additional drug approved by the board.*
- (8) Airway management, respiration, and artificial ventilation, to include:*
- (a) Orotracheal intubation with apneic patients to include insertion of endotracheal, extraglottic and dual lumen airway devices;*
 - (b) Laryngoscopy for the removal of airway obstruction;*
 - (c) Tracheostomy tube replacement and suctioning;*
 - (d) Continuous positive airway pressure device administration and management;*
 - (e) End tidal carbon dioxide monitoring and detection.*
- (9) Assessment:*
- (10) Medicine, to include the following:*
- (a) Manual defibrillation;*
 - (b) Cardiac monitor strip interpretation;*
 - (c) Intraosseous insertion;*
 - (d) Chest compression assist devices.*
- (11) Shock and resuscitation:*
- (12) Trauma, to include:*
- (a) Trauma triage determination;*
 - (b) Needle decompression of the chest.*
- (13) Special patient populations:*
- (14) EMS operations:*

Advanced Emergency Medical Technician Panel Participants

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Revisions and Updates Provided by Chuck Sowerbrower, Sinclair Community College, 2014

The Advanced Emergency Medical Technology (formerly EMT – Intermediate) CTAG originated in 2008 with work from the following panel participants:

Faculty and Teachers

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