



Ohio Administrative Code Rule 4765-17-04 Paramedic curriculum.

Effective: January 1, 2025

[Comment: For dates and availability of material incorporated by reference in this chapter, see rule 4765-1-03 of the Administrative Code.]

(A) An EMS training program for a certificate to practice as a paramedic shall be in accordance with division (E) of section 4765.16 of the Revised Code and this rule and shall require all students complete an anatomy and physiology course as a prerequisite for admission into the EMS training program for a certificate to practice as a paramedic. The EMS training program shall be competency based and conducted in accordance with the "National EMS Education Standards" approved by NHTSA in programs approved by the board, and consistent with the scope of practice set forth in rule 4765-17-03 of the Administrative Code. The national approved standards referenced in this paragraph are required core competencies for instruction in an EMS training program. Elements of the scope of practice not referenced in the "National EMS Education Standards" are added competencies that may be taught at the discretion of the EMS training program. Such EMS training program shall consist of :

(1) Didactic and laboratory education;

(2) Clinical and field training, to include minimum skill set competencies as outlined in paragraph (C) of this rule.

(B) An EMS training program for paramedic certification shall include all of the following subject areas:

(1) Preparatory;

(2) Anatomy and physiology;

(3) Medical terminology;



- (4) Physiology;
 - (5) Life span development;
 - (6) Public health;
 - (7) Pharmacology;
 - (8) Airway management, respiration, and artificial ventilation;
 - (9) Patient assessment;
 - (10) Medicine, to include chest compression assist devices;
 - (11) Shock and resuscitation;
 - (12) Trauma, to include trauma triage determination pursuant to rule 4765-14-02 of the Administrative Code;
 - (13) Special patient populations;
 - (14) A minimum of two hours on identifying and interacting with individuals with dementia;
 - (15) EMS operations.
- (C) In addition to meeting the requirements in paragraphs (A) and (B) of this rule, during the EMS training program, students must demonstrate competencies by successfully completing the following skills on patients, unless otherwise noted:
- (1) A minimum of ninety patient assessments, to include:
 - (a) A minimum of fifty adult assessments;



- (b) A minimum of thirty geriatric assessments;
- (c) A minimum of ten pediatric assessments;
- (d) Within the ninety patient assessments, the following must be included:
 - (i) Fifteen chest complaints;
 - (ii) Fifteen shortness of breath complaints;
 - (iii) Fifteen abdominal pain complaints;
 - (iv) Fifteen altered mental status complaints.
- (2) A minimum of fifteen medication administrations, to include:
 - (a) A minimum of two intravenous medication administrations;
 - (b) A minimum of one subcutaneous injection, which may be completed on a mannequin or simulator;
 - (c) A minimum of three intramuscular injections;
 - (d) A minimum of five bronchodilator administrations.
- (3) A minimum of thirty intravenous accesses and maintenance;
- (4) Programs are expected to provide live intubation experience when possible. At a minimum, students shall be successful in any combination of live patients, high-definition fidelity simulations, low fidelity simulations or cadaver labs in all age brackets. Each student shall perform:
 - (a) A minimum of ten direct adult orotracheal intubations and ten direct pediatric orotracheal



intubations as an individual student competency evaluation in the laboratory;

(b) A minimum of two direct adult orotracheal intubations and two direct pediatric orotracheal intubations as an individual student competency evaluation in a laboratory scenario;

(5) A minimum of thirty electrocardiogram interpretations;

(6) A minimum of fifty advanced life support ambulance runs;

(7) A minimum of two intraosseous initiations, which may be completed on a mannequin or simulator;

(8) A minimum of one manual defibrillation, which may be completed on a mannequin or simulator.

(D) An accredited institution offering an EMS training program, as outlined in paragraphs (A), (B), and (C) of this rule, shall provide for regular written and practical skills evaluations of student performance and achievement throughout the EMS training program. Evaluations shall include a comprehensive written examination and an examination of practical skills, prior to the issuance of a certificate of completion.

(E) A paramedic refresher program shall consist of at least forty-eight hours according to the "Paramedic Refresher Training Program" education standards approved by the board for the number of hours listed in each of the following subject areas:

(1) Twelve hours on pediatric issues;

(2) Eight hours on trauma issues, to include education on each of the following:

(a) Chest tube monitoring;

(b) Maintenance of blood products.

(3) Nine hours on medical emergencies to include education on each of the following:



- (a) Blood chemistry analysis;
 - (b) Morgan lens.
 - (4) Four hours on geriatric issues;
 - (5) A minimum of one hour on identifying and interacting with individuals with dementia;
 - (6) Six hours on cardiac emergencies to include education on thrombolytic initiation and monitoring;
 - (7) Four hours on airway and ventilation to include education on positive end-expiratory pressure;
 - (8) Two hours on EMS operations;
 - (9) Two hours on obstetrics and gynecology.
- (F) An accredited or approved institution offering a refresher program, as outlined in paragraph (E) of this rule, shall provide for regular evaluation of student performance and achievement through written and practical testing, prior to issuance of a certificate of completion.