

This initial certification program will be a minimum of 154 hours assigned as follows:

## Didactic and Lab

The following table outlines—at a minimum—the content area and hour requirements of the EMT program. The Course Coordinator shall assure course content includes all areas of the [Virginia EMS Education Standards \(VEMSES\)](#). Although the *Elaboration of Knowledge* is not identified for each of the VEMSES Content Areas, the Course Coordinator shall cover all material in class to the depth and breadth necessary for student competency to be achieved.

The Course Coordinator shall conduct classroom didactic, laboratory and clinical instruction that follows the Virginia Office of EMS Rules and Regulations and Training Program Administration Manual.

VEMSES Content Area	Minimum Required Hours
Preparatory	11
Anatomy & Physiology	3
Medical Terminology	1
Pathophysiology	4
Life Span Development	1
Public Health	1
Pharmacology	3
Airway Management, Respiration and Artificial Ventilation	7
Assessment	8
Medicine	21
Shock and Resuscitation	3
Trauma	24
Special Patient Populations	11
EMS Operations	23*
Clinical Behavior/Judgment	23
Hospital/Clinical Experience	10
<b>Total</b>	<b>154 hours</b>

\* EMS Operations – The Elaboration of Knowledge section for this competency can be achieved as described in TPAM T-570.



## Clinical Behavior/Judgment

The Course Coordinator shall assure that the Clinical Behavior/Judgment Content Area of the Virginia Emergency Medical Services (VEMSES) is appropriately taught and complies with the Virginia Scope of Practice Procedures and Formulary.

## Hospital/Clinical Experience

Each student is required to comply with the VEMSES standards for this section, which at a minimum shall be 10 contact hours.

- Students should observe emergency department operations for a period of time sufficient to gain an appreciation for the continuum of care.
- Students must participate in and document patient contacts in a field experience approved by the Medical Director and Course Coordinator.
- Students must perform 10 patient assessments
  - A minimum of five (5) patient assessments must be performed on live patients. These should be performed on an ambulance or in an emergency department or may be completed in a clinic, nursing home, doctor's office, etc.
  - No more than five of the required 10 patient assessments may be performed on standardized programmed patients or advanced simulation mannequins.
    - Standardized Program Patients is defined as:
      - The use of individuals trained to portray the roles of patients, family members or others to allow students to practice physical exam skills, history taking skills, communication skills and other exercises.
      - Experiential Learning with a Standardized Patient
        - Standardized Patient (SP) is a person carefully recruited and trained to take on the characteristics of a real patient thereby affording the student an opportunity to learn and to be evaluated on learned skills in a simulated clinical environment.
        - During an interaction with a student the SP may:
          - present case history in response to questioning by the student
          - undergo a limited physical examination at the student's direction
          - assist students in developing their communication and clinical skills



- assist students in working through difficult emotional situations in a safe environment
- Advanced Simulation Manikins are defined as:
  - A realistic interactive training manikin for simulating a wide range of advanced life saving skills in medical emergencies.
  - Meeting the following minimum specifications as defines by the Medical Direction Committee on January 19, 2005:
    - 12 pulse points
    - Advanced IV arm
    - Bilateral Tension Pneumothorax
    - Oral and nasal intubation
    - Tongue edema and laryngospasm
    - Crichothyrotomy
    - 4 lead ECG monitoring and defib
    - CPR with difibrillation
    - Upper teeth break out
    - Inflation of pulses and pneumothorax
    - Bilateral chest tube insertion with simulated fluid discharge
    - IM injection site on deltoid
    - Left and right lungs and stomach that distends
    - Heart and lung sounds selection
    - Variable blood pressures

