

Why Me?

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- AS and BS from EKU
- MEd from ASU
- Recommended for committee by Dr. Bill Young



Background



- Last released in 2009
- Update started in 2019
- Released in December 2021

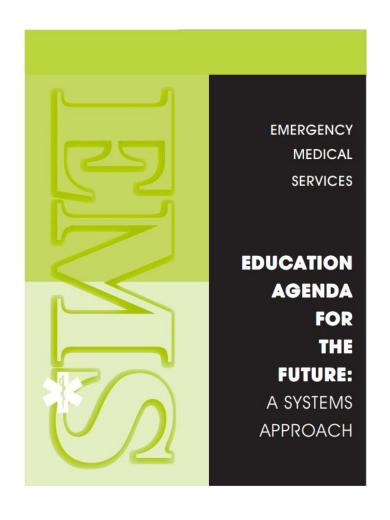
Who's involved

- Funded by NHTSA (Office of EMS)
 - HHRC
 - EMSC
- Led by NAEMSE
- Coordinated through the RedFlash Group

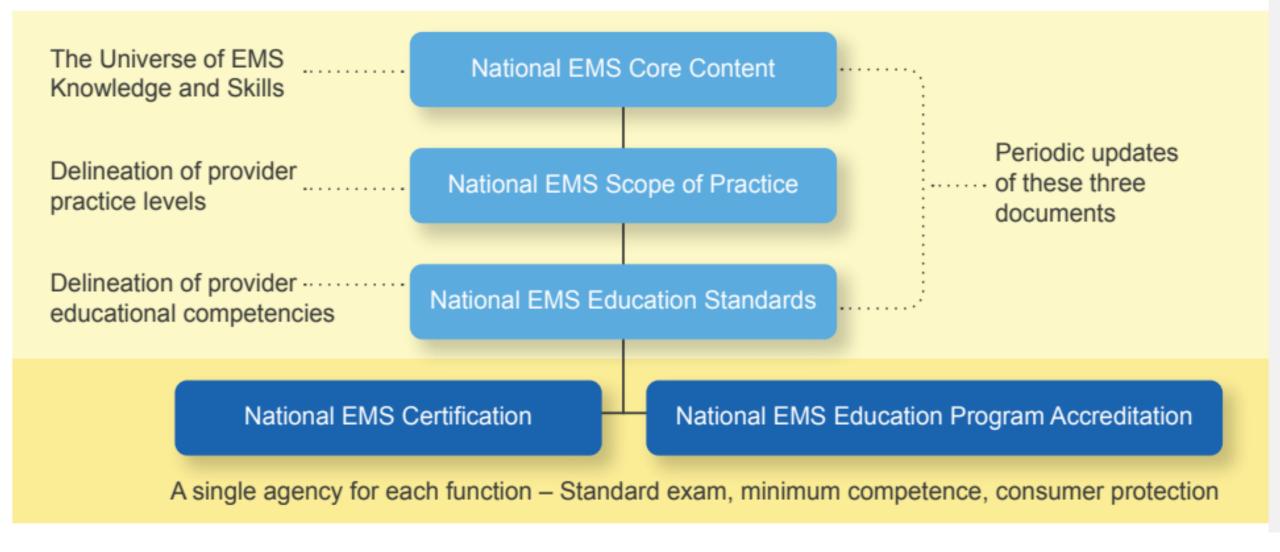


The Big Picture

- Part of the EMS Education
 Agenda for the Future: A systems
 Approach
- These elements include:
 - National EMS Core Content
 - National EMS Scope of Practice Model
 - National EMS Education Standards
 - National EMS Program Accreditation
 - National EMS Certification



EMS Education Agenda for the Future: A Systems Approach





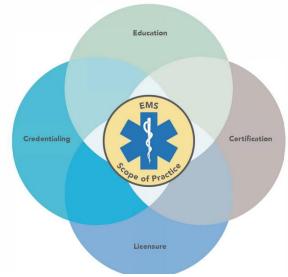


- A law, rule, or regulation
- A curricula
- Mandatory (but are specifically referenced in many state laws and a requirement for accreditation)

A tale of two projects

2019 National EMS Scope of Practice Model





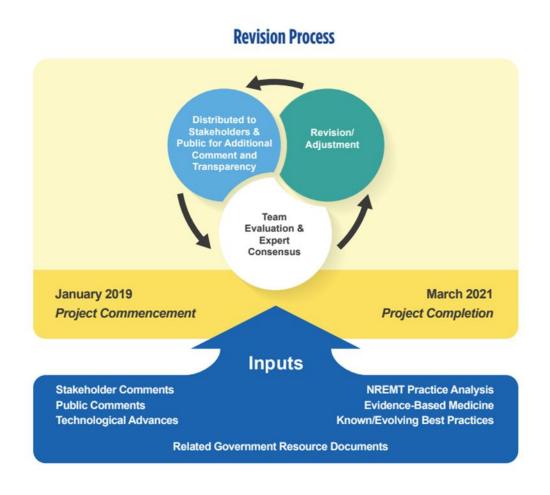
Minimum practices and competencies

2021 National EMS Education Standards



Minimum Content and Competencies

The Process



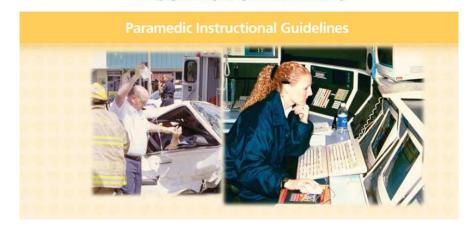
- Multiple committee meetings
- Multiple public comment periods
- Stakeholder comment session
- Committee working groups

Where are the Instructional Guidelines?

 "With input from many stakeholders, the team chose not to update the separate Instructional Guidelines for each clinician level originally published as companion documents to the 2009 Standards" (p.18)



NATIONAL EMERGENCY MEDICAL SERVICES EDUCATION STANDARDS



Accreditation

- Accreditation is required for Paramedic programs currently.
- Accreditation will be required for AEMT programs in 2025.
- No current plans for accreditation at the EMT/EMR level.



Credible education through accreditation

Degree Discussion

 "Early in the process, the team was advised that the debate for or against degrees was beyond the scope of the project as the 2021 National EMS Education Standards do not address degree

requirements." (p.19)



Specialty Certification (p.19)



INTERNATIONAL BOARD OF SPECIALTY CERTIFICATION















Nomenclature (p.19)

- What is the proper nomenclature of the EMS profession and EMS clinicians?
 - EMR, EMT, AEMT, Paramedic?
 - Different levels of "Paramedic"?
- Not in the scope of the project, but a vigorous discussion nationally.
- 2017 NEMSAC made 3 recommendations
 - #1: Officially recognize and use the term "paramedicine,"
 - #2: : Officially recognize and promulgate an all-inclusive standard generic term nationally to describe all health care providers performing within the field of paramedicine, regardless of certification or licensure.
 - #3: Create a nomenclature framework and develop a work plan to address the designation of provider level nomenclature.





Continuing Education Requirements

Accreditation of AEMT Programs (p.19)

- The 2019 National EMS Scope of Practice Model subject matter expert panel recommended requiring AEMT program accreditation by January 1, 2025
- The Education Standards revision team supports this recommendation



Credible education through accreditation

Emerging Technologies (p.19)

There are many new and emerging technologies in healthcare.

- EMS-POCUS
- Blood Products
- Simple Thoracostomies
- And more....
- "Widespread education based on specific technologies should be decided at the local or state level. Only after national adoption and inclusion in a practice analysis should technologies be included in the National EMS Education Standards and National EMS Scope of Practice Model" (p. 20)
 - Write standards from an inclusive instead of a prescriptive model

Emerging Technologies (p.16)

 "Credentialed providers have been taught and assessed on skills and actions that are beyond the entrylevel education and training of an EMS school. For instance, if allowed by the state, ultrasound may be a role performed after proper credentialing by the local EMS medical director and jurisdiction, even though ultrasound is not included in the National EMS Scope of Practice Model or the National EMS Education Standards." (p.16)



Instructional Practices

- Simulation (p.20)
 - "The practice of allowing students to memorize and verbalize a check sheet is no longer acceptable and should be changed."
 - Escalating Simple to Complex simulation
 - Permissible substitution for infrequent or unattainable clinical scenarios (i.e. childbirth, intubation, etc)
- Shadowing (AKA clinicals and preceptorships) (P. 20)
 - "Shadowing" is more important to the educational experience than ever.

Instructional Practices (Continued)

- Interprofessional Education (p.21): "Individual EMS instructors may not possess the expertise or knowledge to teach all subjects within the revised Standards. When this occurs, a subject matter expert should be enlisted for the given topic."
 - Public Health
 - Rescue
 - HAZ MAT
 - Incident Management
- The instructor should have a proper background, relevant knowledge and a degree or a recognized and credible credential in the topic.

Instructional Practices (Continued)

- Implicit Expectations (p.22)
 - EVERY illness, condition, or injury should be taught with the relevant anatomy, physiology, pathophysiology, assessments and accepted treatments accompanying the material.

Program Duration

- "Course Length should be based on competency, not hours" (p.58)
- HOWEVER consensus opinion on minimum clock hours to cover material.
 - EMR 48 hours
 - EMT 150 Hours
 - AEMT 200 Hours BEYOND content in EMT
 - Paramedic: Reference CoAEMSP Standards and







Locally Identified Topics (p.22)

- Education Standards set minimum requirements nationally.
- Often there is local need for enhanced education. The Education Standards do not prevent this.
- "Locally Identified content" appears in almost every educational standard.



Format (p. 11-12)

Table 1: Format of National EMS Education Standards

	EMR	EMT	AEMT	Paramedic	
Content Area	Competency	Competency	Competency	Competency	
Elaboration of Knowledge	Additional knowledge related to the competency				
	Clinical behaviors and judgments				
	Educational Infrastructure	Educational Infrastructure	Educational Infrastructure	Educational Infrastructure	

Behavioral / Psychiatric (p.23)

- The SEGs include more information regarding <u>acute</u> behavioral crisis and mental health disorders.
- Greater depth and breadth of knowledge were recommended for areas involving potential safety hazards to patients and EMS clinicians.
- Other areas were simplified.

Then and Now

		EMR	EMT	AEMT	Paramedic
Medicine	Psychiatric or Behavioral Emergencies (Include psychosocial aspects of agerelated assessment and treatment modifications for the major or common diseases and/ or emergencies associated with pediatric and geriatric patients)	Recognition of behaviors that pose a risk to the EMR, patient or others Recognition of suicide risk	Basic principles of the mental health system (S,S) Patterns of violence, abuse and neglect (S,S) Acute psychosis (F,F) Suicide ideation (F,F) Excited delirium (F,F) Depression (F,F) Medical fear (F,F) Substance use disorder (F,F) PTSD (F,F) Other psychiatric/behavioral disorders to be determined locally (S,S)	Basic principles of the mental health system (S,S) Patterns of violence, abuse and neglect (F,F) Acute psychosis (F,F) Suicide ideation (C,C) Excited delirium (F,F) Anxiety (F,F) Depression (F,F) Medical fear (F,F) Substance use disorder/addictive behavior (C,C) PTSD (F,F) Other psychiatric/behavioral disorders to be determined locally (S,S)	Basic principles of the mental health system (S,S) Patterns of violence, abuse and neglect (C,C) Suicide ideation (C,C) Excited delirium (C,C) Depression (C,C) Medical fear (F,F) Substance use disorder/addictive behavior (C,C) PTSD (C,C) Acute psychosis (C,C) Cognitive disorders (F,F) Thought disorders (F,F) Mood disorders (F,F) Somatoform disorders (F,F) Factitious disorders (F,F) Personality disorders (F,F) Personality disorders (F,F) Other psychiatric/behavior disorders to be determined locally (S,S)

	EMR	EMT	AEMT	Paramedic
	Simple depth, simple breadth	EMR Material PLUS:	Same as Previous Level	AEMT Material PLUS:
	Recognition of Behaviors that pose a risk to the EMR, patient or others	Simple depth, simple breadth Basic principles of the mental health system		Anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, presentations, prognosis, and management of
		Fundamental depth, foundational breadth		Complex depth, comprehensive breadth
		Assessment and management of		Acute psychosis
		Acute psychosis		Agitated delirium
		Suicidal/risk Agitated delirium		Fundamental depth, foundational breadth
Psychiatric				Cognitive disorders
·				Thought disorders
				Mood disorders
				Neurotic disorders
				Substance-related disorders / addictive behavior
				Somatoform disorders
				Factitious disorders
				Personality disorders
				Patterns of violence/ abuse/neglect
				Organic psychoses

		EMR	EMT	AEMT	Paramedic
Medicine	and negle Acute Suicide	Recognition of behaviors that pose a risk to the EMR, patient or others Recognition of suicide risk violence, abuse ect (All Ages) psychosis ideation delirium	Basic principles of the mental health system (S,S) Patterns of violence, abuse and neglect (S,S) Acute psychosis (F,F) Suicide ideation (F,F) Excited delirium (F,F) Anxiety (F,F) Depression (F,F) Medical fear (F,F) Substance use disorder (F,F) PTSD (F,F) Other psychiatric/behavioral disorders to be determined locally (S,S)	Basic principles of the mental health system (S,S) Patterns of violence, abuse and neglect (F,F) Acute psychosis (F,F) Suicide ideation (C,C) Excited delirium (F,F) Anxiety (F,F) Depression (F,F) Medical fear (F,F) Substance use disorder/addictive behavior (C,C) PTSD (F,F) Other psychiatric/behavioral disorders to be determined locally (S,S)	 Basic principles of the mental health system (S,S) Patterns of violence, abuse and neglect (C,C) Suicide ideation (C,C) Excited delirium (C,C) Anxiety (C,C) Depression (C,C) Medical fear (F,F) Substance use disorder/addictive behavior (C,C) PTSD (C,C) Acute psychosis (C,C) Cognitive disorders (F,F) Thought disorders (F,F) Mood disorders (F,F) Neurotic disorders (F,F) Somatoform disorders (F,F) Factitious disorders (F,F) Personality disorders (F,F) Other psychiatric/behavior disorders to be determined locally (S,S)

Cultural Humility and Awareness

 "After graduation, can our students provide culturally competent, equitable and medically appropriate prehospital care to each and every patient no matter their background?" (p.23)



EMS Operations (p. 52 and 53)

 Should be taught by Subject Matter Experts (SME)

• Specific minimum requirements for:

- Emergency Vehicle Operations
- Incident Management
- Mass Casualty Situations
 - Natural Disasters
 - ASHER
 - Other events
- Landing Zone Operations
- Rescue Operations
- Hazardous Materials





Public Health (p.25)

- "The new standards are intended to prepare the entry-level provider to work alongside and collaboratively with specially trained community paramedics, social workers, public health organizations, health care entities, emergency management agencies and non-governmental organizations in their day-to-day duties and lay the foundation for advancement into specialized roles."
 - * Specific infectious diseases, "Emerging infectious disease" and "other infectious diseases to be determined locally" covered in medical

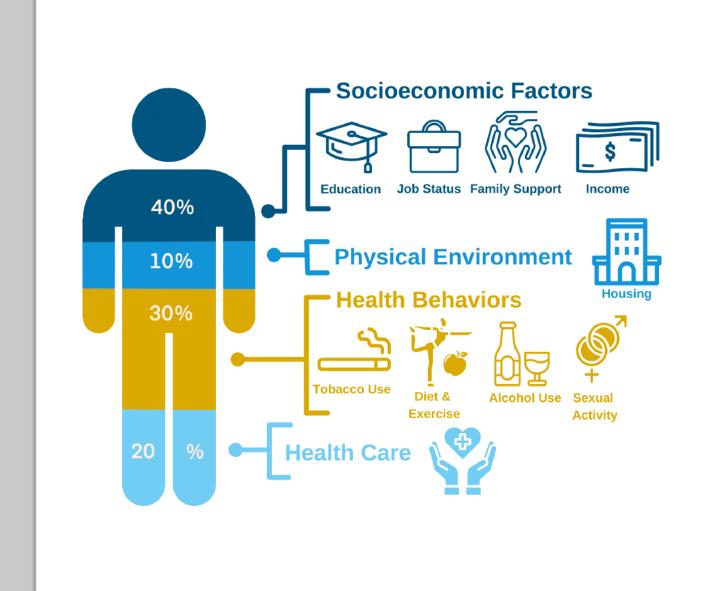
Then and Now

	EMR	EMT	AEMT	Paramedic
Public Health	Have an awareness of local public health resources and the role EMS personnel play in public health emergencies.	Uses simple knowledge of the principles of illness and injury prevention in emergency care.	Uses simple knowledge of the principles of the role of EMS during public health emergencies.	Applies fundamental knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention.

EMR		EMR	EMT	AEMT	Paramedic
	Public Health	Has an awareness of local public health resources and their role in public health.	Applies knowledge of the principles of public health epidemiology including public health emergencies, public health monitoring, health promotion and illness and injury prevention.	Same as EMT level	Applies knowledge of principles of public health and epidemiology including public health emergencies, health promotion and illness and injury prevention.
Public Health	Public Health Overview	EMS roles in public health (S,S) Infection prevention and control (S,S) Human trafficking (S,S)	EMS roles in public health (S,S) Infection prevention and control (S,S) Human trafficking (S,S) EMS EHR reporting and data collection (S,S) Governmental/ nongovernmental roles & resources (S,S) Public health mission and goals (S,S) Social, geographic, economic, demographic determinants of health (S,S) Patient and community education (S,S) Injury prevention and wellness (S,S) Unique pediatric, geriatric and special populations public health concerns (S,S) Screenings and vaccinations/immunizations (S,S)	EMS roles in public health (S,S) Infection prevention and control (S,S) Human trafficking (S,S) EMS EHR reporting and data collection (S,S) Governmental notes & resources (S,S) Public health mission and goals (S,S) Social, geographic, economic, demographic determinants of health (S,S) Patient and community education (S,S) Injury prevention and wellness (S,S) Unique pediatric, geriatric and special populations public health concerns (S,S) Screenings and vaccinations/immunizations (F,F) Impacts of political, social and economic issues (F,F) Infectious disease (F,F)	EMS roles in public health (C,F) Infection prevention and control (F,F) Human trafficking (S,S) EMS EHR reporting and data collection (S,S) Governmental/ nongovernmental roles & resources (S,S) Public health mission and goals (S,S) Social, geographic, economic, demographic determinants of health (S,S) Patient and community education (S,S) Injury prevention and wellness (S,S) Unique pediatric, geriatric and special populations public health concerns (S,S) Screenings and vaccinations/immunizations (C,F) Impacts of political, social and economic issues (F,F) Infectious disease (C,F) Patient disposition, selecting destination, ambulance transport (C,F) Bioinformatics (C,F)

	EMR	EMT		AEMT	Paramedic
	EMS roles in public health Public health mission and goals	principles epidemiolo health eme health mor	owledge of the of public health ogy including public ergencies, public nitoring, health and illness and ention.	Same as EMT level	Applies knowledge of principles of public health and epidemiology including public health emergencies, health promotion and illness and injury prevention.
	Infection prevention and control	(S,S) Infection control (S		EMS roles in public health (S,S) Infection prevention and control (S,S)	EMS roles in public health (C,F) Infection prevention and control (F,F)
	EMS EHR reporting and data collection	Social, ge demograph health (S, Patient ar education Injury prevention and weiliness (S,S)		Human trafficking (S,S) EMS EHR reporting and data collection (S,S) Governmental/	Human trafficking (S,S) EMS EHR reporting and data collection (S,S) Governmental/
##E-II-III-II	Governmental/ nongovernmental roles & resources (S,S) (Healthcare Navigation) Patient and community education			graphic, economic, nic determinants of health Injury prevention and wellness (S,S) Unique pediatric, geriatric and special populations public health concerns (S,S)	nongovernmental roles & resources (S,S) Public health mission and goals (S,S) Social, geographic, economic, demographic determinants of health (S,S) Patient and community education (S,S) Injury prevention and wellness (S,S) Unique pediatric, geriatric and special populations public health concerns (S,S)
	Screenings and vaccinations/ immunizations	Screening	gs and vaccinations/ ations (S,S) Pa	Screenings and vaccinations/ immunizations (F,F) Impacts of political, social and aramedics: sposition, selecting	Screenings and vaccinations/ immunizations (C,F) Impacts of political, social and economic issues (F,F) Infectious disease (C,F) Patient disposition, selecting destination, ambulance transport (C,F)
	IIIIIIIIIIIIIIII		destination,	ambulance transport	Bioinformatics (C,F)

Knowing about all the public health factors that go into healthcare for our patients improves outcomes



The future of paramedicine

- The enhancements of the public health segment enable EMS providers to work alongside of other disciplines.
- The enhancements also lay the foundation of growth into specialty fields for paramedics
- The enhancements also help paramedics make safety and more informed decisions about alternative destinations and healthcare navigation for patients.



Pharmacology (p.25)

- "It is not enough to solely teach pharmacology in a traditional didactic manner. This skill should include didactic, psychomotor and affective instruction."
- Increased emphasis on medication safety practices at all levels
 - i.e. medication cross checks
 - Medication skills during simulation
- Significant opportunities to practice
 - Simulation
 - Patient clinical experience
 - Adult, pediatric and geriatric concerns taught due to chance of medication errors in all populations

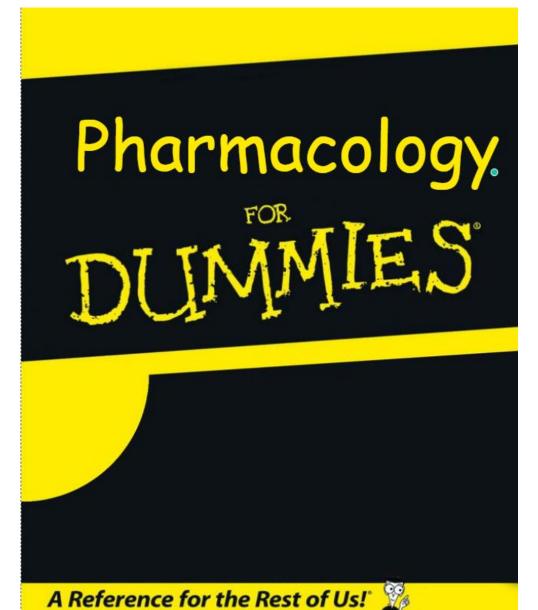
Then and Now

	EMR	EMT	AEMT	Paramedic
Medication Cros		EMR Material PLUS: Fundamental depth, foundational breadth Within the scope of practice of the EMT how to	EMT Material PLUS: Fundamental depth, foundational breadth Routes of administration Within the scope of practice	AEMT Material PLUS: Complex depth, comprehensive breadth Routes of administration Within the scope of practice
Intranasal and administ Administration Use of tools/refacilitate safe administration	ration dss Check procedure (0,0) (S,S) esources to measured	Assist/administer medications to a patient Use a Medication Cross Check procedure (F,F) Use an autoinjector (S,S) Use a unit-dose, premeasured intranasal device (S,S) Administer medications to a	Use a Medication Cross Chec procedure (F,F) Use an autoinjector (S,S) Use a unit-dose, premeasured intranasal device (S,S) Administer medications to a	Check procedure (F,F) • Use an autoinjector (S,S)
Provide pain manag		patient (F,F) • Provide pain management, including ethical and safety considerations (F,F)	patient (C,C) • Provide pain management, including ethical and safety considerations (C,C) • Routes of administration (C,C) • Resources for safe administration of weight-based dosing (F,F)	patient (C,C) • Provide pain management, including ethical and safety considerations (C,C) • Routes of administration (C,C)

	EMR		EMT	AEMT	Paramedic
Pharmacology	Pharmacology	Uses knowledge of the medications that the EMR may administer in an emergency.	Applies knowledge of the medications the EMT may administer to a patient during an emergency and chronic or maintenance medications the patient may be taking.	Applies (to patient assessment and management) knowledge of the medications carried by AEMTs that may be administered to a patient during an emergency and chronic or maintenance medications the patient may be taking.	Integrates knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.
	Principles of Pharmacology	Medication safety (S,S) Kinds of medications used during an emergency (S,S)	Medication safety (F,F) Medication legislation (F,F) Naming (F,F) Classifications (F,F) Storage and security (F,F) Medication interactions (S,S) Adverse drug reactions (S,S) Metabolism and excretion (F,F) Mechanism of action (F,F) Medication response relationships (F,F)	Medication safety (C,C) Medication legislation (C,C) Naming (C,C) Classifications (C,C) Storage and security (C,C) Medication interactions (C,C) Adverse drug reactions (C,C) Pharmacokinetics (C,C) Pharmacodynamics (C,C) Schedules (C,C)	Medication safety (C,C) Medication legislation (C,C) Naming (C,C) Classifications (C,C) Storage and security (C,C) Medication interactions (C,C) Adverse drug reactions (C,C) Pharmacokinetics (C,C) Pharmacodynamics (C,C) Schedules (C,C)
	Medication Administration	Use a Medication Cross Check procedure (S,S) Use an autoinjector (S,S) Use a unit-dose, premeasured intranasal device (S,S) Use of tools/resources to facilitate safe administration of weight-based dosing.	Use a Medication Cross Check procedure (F,F) Use an autoinjector (S,S) Use a unit-dose, premeasured intranasal device (S,S) Administer medications to a patient (F,F) Provide pain management, including ethical and safety considerations (F,F) Routes of administration (S,S)	Use a Medication Cross Check procedure (F,F) Use an autoinjector (S,S) Use a unit-dose, premeasured intranasal device (S,S) Administer medications to a patient (C,C) Provide pain management, including ethical and safety considerations (C,C) Routes of administration (C,C) Resources for safe administration of weight-based dosing (F,F)	Use a Medication Cross Check procedure (F,F) Use an autoinjector (S,S) Use a unit-dose, premeasured intranasal device (S,S) Administer medications to a patient (C,C) Provide pain management, including ethical and safety considerations (C,C) Routes of administration (C,C) Resources for safe administration of weight-based dosing (F,F)

		EMR	EMT	AEMT	Paramedic
Pharmacology	Acute Medications	Names (S,S) Effects (S,S) Indications (S,S) Contraindications (S,S) Side effects (S,S) Routes of administration (S,S) Dosages (S,S)	 Names (F,S) Effects (S,S) Indications (F,S) Contraindications (F,S) Side effects (F,S) Routes of administration (F,S) Dosages (F,S) Actions (F,S) Complications (F,S) Interactions (F,S) 	Names (C,C) Effects (C,C) Indications (C,C) Contraindications (C,C) Side effects (C,C) Routes of administration (C,C) Dosages (C,C) Actions (C,C) Complications (C,C) Interactions (C,C)	 Names (C,C) Effects (C,C) Indications (C,C) Contraindications (C,C) Side effects (C,C) Routes of administration (C,C) Dosages (C,C) Actions (C,C) Complications (C,C) Interactions (C,C)
	Chronic or Maintenance Medications	No knowledge related to this competency is applicable at this level.	Specific medication classes to be determined locally Class names (S,S) Class indications (S,S) Class complications (S,S) Class side effects (S,S) Polypharmacy (S,S)	Specific medication classes to be determined locally Class names (S,S) Class indications (S,S) Class complications (S,S) Class side effects (S,S) Polypharmacy (S,S)	Specific medication classes and examples to be determined locally Class names (F,S) Class indications (F,S) Class complications (F,S) Polypharmacy (F,S)

No More...



Pediatric and Geriatric Content Competencies

- "EMS education should include knowledge from the cradle to the grave.
 Pediatric and geriatric topics should no longer be minimized, in comparison
 to "adult" topics, or relegated to an isolated component of an EMS course,
 which can create a perception that the content is somehow less important."
 (p.26)
- Individual sections for pediatrics and geriatrics have been removed, with education content addressing these special populations now incorporated throughout the education standards.
- Concepts related to geriatric and pediatric patients deserve equitable attention and should be taught repeatedly throughout every section of a course resulting in an earlier assimilation of the content.
- Includes family centered topics.

Pediatrics and Geriatrics (p.51)

	·					
		EMR	EMT	AEMT	Paramedic	
	Neonatal Care	Newborn stabilization (S,S) Neonatal resuscitation (S,S)	Newborn stabilization (F,F) Neonatal resuscitation (F,F)	Newborn stabilization (F,F) Neonatal resuscitation (F,F)	Newborn stabilization (C,C) Neonatal resuscitation (C,C) Anatomy and physiology of neonatal circulation (C,C)	
	Pediatrics	pediatric-specific diseases and				
	Geriatrics	The Education Standards now integrate assessment, diagnostic, treatment and disposition modifications for geriatric-specific diseases and emergencies into each section of the document				
Special Patient Populations	Patients with Special Challenges	Recognizing and reporting abuse and neglect (S,S)	Recognizing and reporting abuse and neglect (S,S) Abuse/Intimate partner violence (S,S) Neglect (S,S) Child/dependent adult maltreatment (S,S) Homelessness (S,S) Poverty (S,S) Bariatrics (S,S) Technology dependent (locally determined) (S,S) Hospice/ terminally ill (S,S) Tracheostomy care/dysfunction (S,S)	Recognizing and reporting abuse and neglect (S,S) Abuse/Intimate partner violence (F,F) Neglect (F,F) Child/dependent adult maltreatment (F,F) Homelessness (F,F) Poverty (F,F) Bariatrics (F,F) Technology dependent (locally determined) (F,F) Hospice/ terminally ill (F,F) Tracheostomy care/dys/unction (F,F)	Recognizing and reporting abuse and neglect (S,S) Abuse/Intimate patiner violence (C,C) Neglect (C,C) Child/dependent adult maltreatment (C,C) Honselessness (F,F) Boverty (C,C) Bariatrics (C,C) Technology dependent (vagal nerve stimulators, CSF diversion devices or shunts, VAD, pacemakers, gastric tubes and others to be locally determined) (C,C) Hospice/ terminally ill (C,C)	
cation Standards not integrate assessment, diagnostic, treatment osition modifications for pediatric/geriatric specific diseases into each section of the document. (F,F) eficit/loss (F,F) officit/loss (F,F) eficit/loss (F,F) officit/loss (F,F) eficit/loss (F,F) officit/loss (F,						

		EMR	EMT	AEMT	Paramedic
	Neonatal	Newborn stabilization (S,S)	Newborn stabilization (F,F)	Newborn stabilization (F,F) Neonatal resuscitation (F,F)	 Newborn stabilization (C,C) Neonatal resuscitation (C,C) Anatomy and physiology of neonatal circulation (C,C)
Abuse		especially child and intim	and disposition modifications for p	·	
	Geriatrics	emergencies into each section of th			,
Expanded		include HOSPICE, Homel nt Patients (VNS, VADs, Sh	Abuse/Intimate partner Violence (F,F) Neglect (F,F) Child/dependent adult	Recognizing and reporting abuse and neglect (S,S) Abuse/Intimate partner violence (C,C) Neglect (C,C) Child/dependent adult maltreatment	
Ę			manueaunent (0,0)	maltreatment (F,F) Homelessness (F,F)	(C,C) • Homelessness (F,F)
	Tracheos	tomy care , suctioning at	Poverty (F,F) Bariatrics (F,F) Technology dependent (locally Technology dependent (vagal r	Poverty (C,C) Bariatrics (C,C) Technology dependent (vagal nerve)	
			Hospice/ terminally ill (S,S) Tracheostomy care/dysfunction (S,S) Homecare (S,S) Sensory deficit/loss (S,S) Developmental disability (S,S) Autism Spectrum Disorder (S,S) Orthotics/prosthetics (S,S)	determined) (F,F) Hospice/ terminally ill (F,F) Tracheostomy care/dysfunction (F,F) Homecare (F,F) Sensory deficit/loss (F,F) Developmental disability (F,F) Autism Spectrum Disorder (F,F) Orthotics/prosthetics (S,S)	stimulators, CSF diversion devices or shunts, VAD, pacemakers, gastric tubes and others to be locally determined) (C,C) Hospice/ terminally ill (C,C) Tracheostomy care/dysfunction (C,C) Homecare (F,F) Sensory deficit/loss (F,F) Developmental disability (F,F) Autism Spectrum Disorder (F,F) Orthotics/prosthetics (S,S)

	Clinical Behavior/Judgment							
		EMR	EMT	AEMT	Paramedic			
	Assessment	Perform a simple assessment to identify life threats, identify injuries requiring spinal motion restriction and conditions requiring treatment within the scope of practice of the EMR:	Perform a basic history and physical examination to identify acute complaints and monitor changes. Formulate a field diagnosis based upon an actual and/or potential illness or injury.	 Perform a basic history and physical examination to identify acute complaints and monitor changes. Formulate a field diagnosis based upon an actual and/or potential illness or injury. 	Perform a comprehensive history and physical examination to identify factors affecting the health and health needs of a patient. Relate assessment findings to underlying pathological and physical giord physical and physical giord physical and physical giord physical and physical giord phy			
((EMT and above) EMS does diagnose! Integrate and synthesize the multiple determinants of health and clinical care.							
(Paramedic) Health Screening and Referrals! - Formulate a field diagrate based on an analysis of comprehensive assess findings, anatomy, phy pathophysiology and epidemiology.								
					 Perform health screening and referrals. 			
	Therapeutic Communication and Cultural Humility	Effectively communicates in a non-discriminatory manner that addresses inherent or unconscious bias, is culturally aware and sensitive, and intended to improve patient outcome.						
Psychomotor Skills • Safely and effectively perform all psychomotor skills within the National EMS Scope of Practice Model AND state Scope					state Scope of Practice at this level.			

Field /Clinical Experience (p. 58)

- EMR: None required
- EMT: Patient Contacts
 - Field/Mobile Healthcare environment
 - Simulated experiences permissible when ambulance experiences are not available.
 - MD and program director oversight.
- AEMT:
 - Team Leadership required.
- Paramedic
 - CoAEMSP standards



Programs

- Sponsoring organizations shall be one of the following:
 - Accredited educational institution
 - Public safety organization
 - Accredited hospital, clinic or medical center, or
 - Other *state approved* institution or organization



Pitfalls and Errors

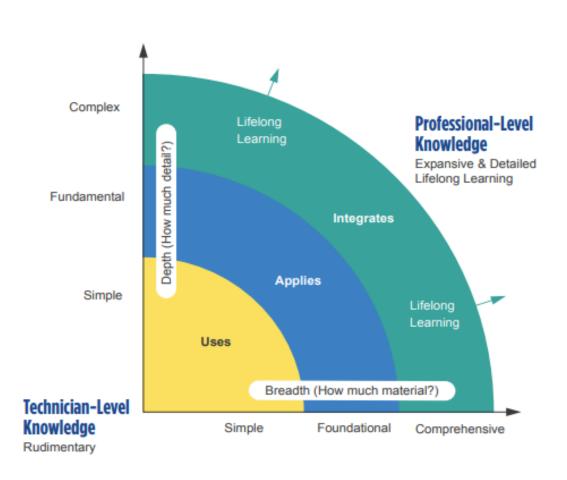


Sequencing

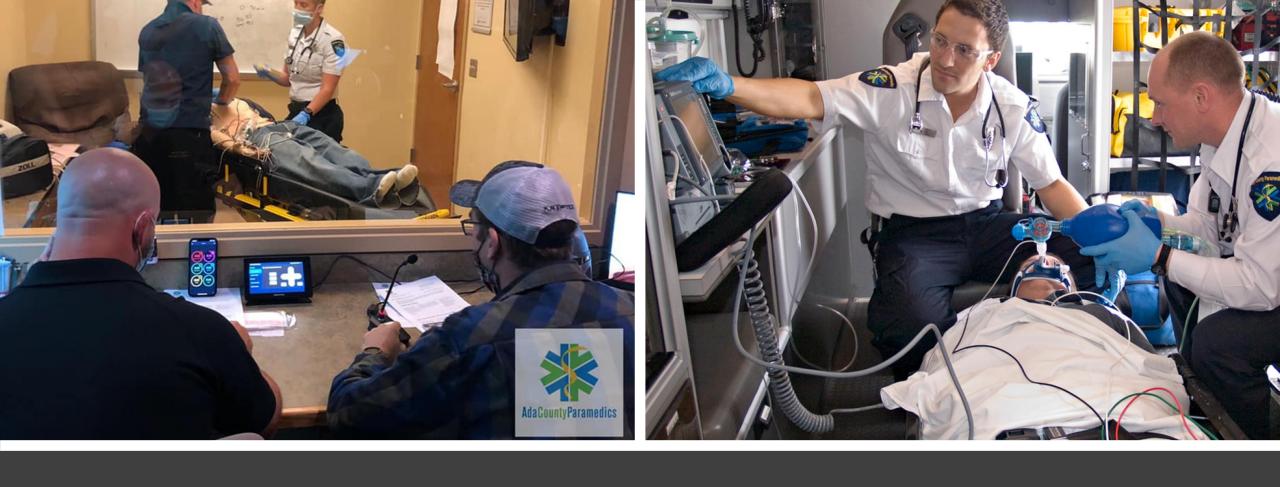
 The order of the Educational Standards should not dictate the order of instruction. "Curricular flow should be determined by the education program director with input from faculty, medical direction and advisory committees."



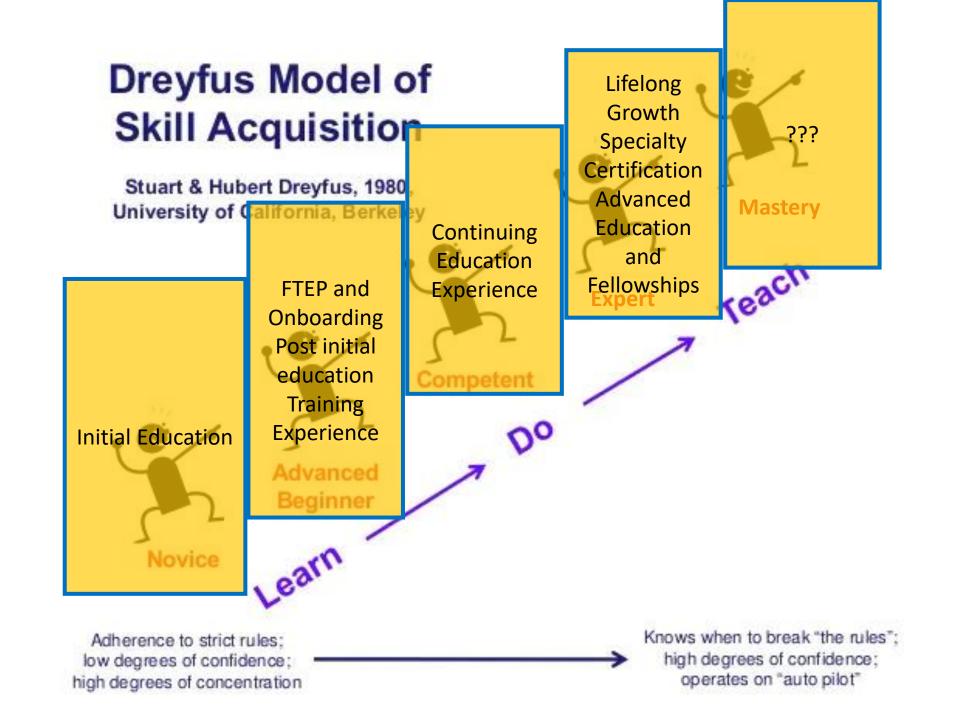
Entry Level Competency is not "ready to practice"

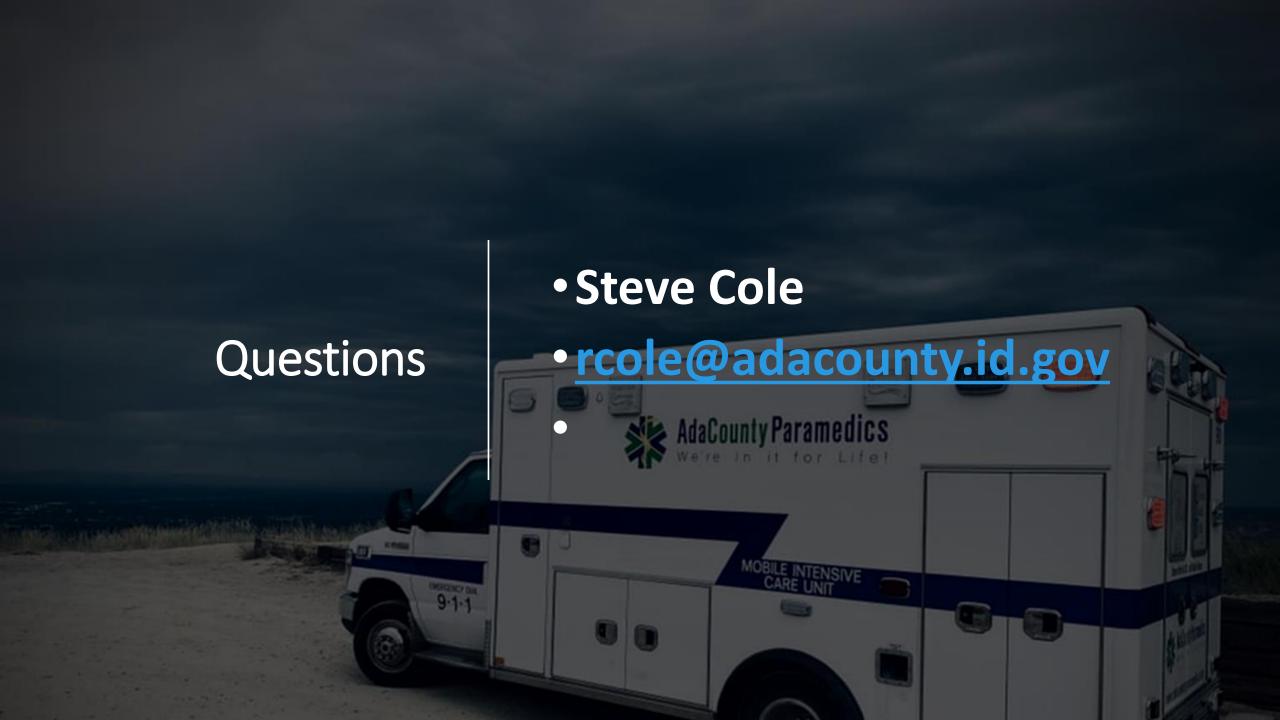


- What's Beyond?
- Professional Level of:
 - Competency
 - Expertise
 - Mastery
- "Lifelong Learning"
 - Experience
 - Structured ongoing education
 - Professional development and professional growth
 - And much more...



Graduation from an Educational Program and "Entry Level Competency" is not "Ready to Practice"





Resources

- www.ems.gov
- https://www.ems.gov/pdf/EMS Education Standards 2021 v22.pdf
- https://www.ems.gov/pdf/National EMS Scope of Practice Model 2019.pdf