

WVOEMS Approved EMR Refresher Outline (NCCP standards)

The National Component requires **8 hours** of the topic hours listed for recert: Modules I thru II

Module I

4 Hours

TOPIC – <i>Airway and Neurological Management</i>	TIME LINE
Ventilation ETCO2	30 Min.
Oxygenation	30 Min.
Neurological Emergencies	30 Min.
Cardiac	
Adult Cardiac Arrest	30 Min.
Pediatic Cardiac Arrest	30 Min.
ROSC	30 Min.
Stroke	30 Min.
CNS Injuries	30 Min.

Required Objectives:

1. Discuss and Describe the ventilatory process
2. Identify adequate vs. inadequate breathing
 - a. Tidal volume
 - b. Minute volume
 - c. Vital capacity
 - d. Hypoxia
 - e. Hypoxic Drive
 - f. Dyspnea
3. Describe ventilatory assist and measurement of adequacy-ETCO2
 - a. When to oxygenate and when to ventilate
4. Discuss cellular metabolism thru oxygenation
5. Difference between respiratory arrest and failure
6. Differentiate between the features and indications of oxygen therapy devices including nasal cannula and non-rebreather mask.
7. State the chain of survival
8. Discuss recognition of the critical cardiac patient
9. Describe the current techniques of one and two rescuer adult CPR
10. Describe the current techniques of one and two rescuer pediatric CPR
11. Describe the use of the AED
12. Identify the signs associated with Return of Spontaneous Circulation
13. Discuss s/s of stroke
14. Discuss importance of knowing the timeline of stroke events
15. Discuss management of the stroke victim
16. Define altered mental status
17. State common causes of altered mental status
18. Define status epilepticus/seizures
19. Explain complications associated with seizures
20. Identify the s/s of a patient with a traumatic brain injury (TBI)
21. Discuss the current research and practices for the use of selective spinal immobilization

TOPIC – <i>Medical Emergencies/Operations</i>	TIME LINE
Endocrine Emergencies	30 Min.
Psychiatric / Behavioral Emergencies	30 Min.
Toxicological Emergencies	30 Min.
Immunological Emergencies	30 Min.
Infectious Diseases	30 Min.
OB Emergencies	30 Min.
Field Triage – Disaster/MCI's	30 Min.
EMS Provider Hygiene, Safety, and Vaccinations	15 Min.
EMS Culture and Safety	15 Min.

Required Objectives:

1. Explain the role glucose plays on the cells
2. Identify symptoms commonly associated with hypoglycemia
3. Identify symptoms commonly associated with hyperglycemia
4. Describe interventions for hypo/hyperglycemic patients
5. Define a behavioral crisis
6. Describe the components of a mental status exam
7. State the risk factors for suicide
8. Discuss the physiology related to allergies and anaphylaxis
9. Differentiate between a mild/localized allergic reaction and anaphylaxis
10. Explain the actions of medications used to treat anaphylaxis:
 - a. Epinephrine
11. Identify common synthetic stimulants and natural or synthetic THC (Tetrahydrocannabinol)
 - a. Recognize the effects
12. Identify common opioids
 - a. Recognize the effects
13. Explain common treatment options for a person experiencing opioid overdose
14. Describe drug resistant infections
15. State how the transmission of influenza virus occurs
16. Understand mode of transmission
17. Assess the differences between sepsis and septic shock
18. Identify proper hand washing technique
19. Identify appropriate use of alcohol-based hand cleaner
20. Discuss the CDC's recommendations of vaccines for healthcare providers
21. Assess eye safety indications and measures
22. State the stages of labor
23. Explain the procedures for normal child delivery in the field
24. Determine the need for neonatal resuscitation during delivery
25. Describe the routine care of a newborn not requiring resuscitation
26. Discuss CDC's Field Triage Decision Scheme
27. Discuss different triage methods:
 - a. SALT
 - b. START
 - c. JumpSTART
28. Define culture of safety
29. Identify and explain the six core elements necessary to advance an EMS Culture of Safety
30. Identify the role of the EMS providers in establishing a culture of safety within EMS organizations

Module III

4 hours +

TOPIC – Skills Performance
Patient Assessment – Trauma (<i>includes baseline vital assessment</i>)
Patient Assessment - Medical (<i>includes baseline vital assessment</i>)
Bleeding Control / Shock Management
Oxygen Administration
Cardiac Arrest / AED Management

Required Objectives:

See WVOEMS approved psychomotor objectives