

PRINCETON RESCUE SQUAD

Paramedic Certificate

COURSE DESCRIPTIONS

**NRPM 101 Introduction to Emergency Medical Care**

- In addition to showing proficiency in basic life support skills, students will integrate comprehensive knowledge of EMS systems, the safety/well-being of the paramedic, and medical/legal and ethical issues which is intended to improve the health of EMS personnel, patients, and the community.

**NRPM 102 Medical Math and Pharmacological Principles**

- This course provides the learner with an introduction to medication dose calculations, and pharmacological principles including pharmacokinetics and pharmacodynamics, mechanisms of action, disease pathology, and review common medications that affect various body systems. *Co-Requisite: NRPM 102L*

**NRPM 102L Pharmacological Techniques**

- This laboratory course provides participants with comprehensive knowledge in medication administration techniques based on appropriate routes and the application of skills in drug calculations to deliver accurate doses of medicine. *Co-requisite: NRPM 102*

**NRPM 103 Introduction to Clinical Medicine and Assessment**

- Paramedic students will apply skills in therapeutic communication to integrate scene and patient assessment findings with knowledge of lifespan development, epidemiology, and pathophysiology to form a field impression. This includes developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan. Finally, participants will acquire the skills to correctly place monitoring devices such as 12 lead ECG's and obtain information from basic blood chemistry.

**NRPM 104 Anatomy and Physiology for Emergency Medical Care**

- Students will integrate complex depth and comprehensive breadth of knowledge of the anatomy and physiology of all human systems to better identify the signs and symptoms associated with pathophysiology. *Co-Requisite: NRPM 104L*

**NRPM 104L Anatomy and Physiology for Emergency Medical Care**

- This laboratory course investigates the structure and function of the human body. Topics covered will include the basic organization of the body and major body systems along with the impact of diseases on certain systems. *Co-Requisite: NRPM 104*

**NRPM 106 Airway and Injury Management in the Field**

- The learner will integrate complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages. Additionally, the student will integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment disposition plan for an acutely injured patient. *Co-Requisite: NRPM 102, NRPM 102L, NRPM 104, NRPM 104L, NRPM 106L*

**NRPM 106L     Airway and Injury Management in the Field Lab**

- In this laboratory course, the paramedic student will apply the principles of patient assessment and the psychomotor skills associated with assuring a patent airway, providing adequate mechanical ventilation, and respiration for patients of all ages and include the use of appropriate pharmacological interventions as necessary. Additionally, students will be expected to implement a comprehensive treatment disposition plan for an acutely injured patient. *Co-Requisite: NRPM 102, NRPM 102L, NRPM 104, NRPM 104L, NRPM 106*

**NRPM 108     Basic ECG Interpretation and Cardiac Resuscitation**

- This course reviews the basics of cardiac electrophysiology, waves and measurements, and the interpretation of ECG's from continuous waveform monitoring. Based on this information, students will apply their knowledge to implement a treatment plan for patients experiencing cardiac dysrhythmias which require advanced emergency care based on the American Heart Association and Emergency Cardiovascular Care Guidelines. *Pre-Requisites: NRPM 102, NRPM 102L.*

**NRPM 109     Advanced ECG Interpretation and Cardiopulmonary Emergency Care**

- Students will integrate assessment, including but not limited to 12 Lead ECG, findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with a respiratory or cardiovascular complaint. *Pre-Requisites: NRPM 103, NRPM 104, NRPM 104L.*

**NRPM 110     Medical Emergency Pre-Hospital Care**

- This course will ask participants to integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with a medical complaint. *Co-Requisites: NRPM 108, Pre-Requisites: NRPM 103*

**NRPM 111     Maternal and Child Emergency Care**

- This course integrates assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a comprehensive treatment/disposition plan for gynecological, obstetrical, neonatal, and pediatric emergencies. *Pre-Requisites: NRPM 103*

**NRPM 111L     Maternal and Child Emergency Care Lab**

- This laboratory course provides participants with practical application of the skills associated in a treatment/disposition plan for gynecological, obstetrical, neonatal, and pediatric emergencies. *Co-Requisite: NRPM 111, NRPM 113*

**NRPM 112     Special Consideration in Pre-Hospital Care**

- This course discusses the healthcare implications of abuse, neglect, poverty, bariatrics, technology dependent, and the terminally ill. It also focuses on the aspects of age-related assessment and treatment modifications for the geriatric patient. Additionally, this lesson reviews the assessment findings and psychosocial needs to formulate a field impression and comprehensive treatment plan for patients with special healthcare challenges. *Pre-Requisite: NRPM 103*

**NRPM 113      Simulation Lab 1**

- This laboratory course develops the application of pre-hospital patient assessment, clinical decision making, and management skills using pre-established, simulated patient encounters. *Co-Requisites: NRPM 109, NRPM 110, NRPM 111, NRPM 112*

**NRPM 114      Clinical Practicum 1**

- This clinical internship course is intended to develop hands-on skills in the hospital setting on live patients. The student must successfully demonstrate the ability to safely gain venous access, administer medications, use basic and advanced level skills to manage a patient airway, obtain glucometer readings, and acquire both continuous monitoring ECG waveforms and 12 Lead ECG's on patients of any age. *Pre-Requisites: NRPM 101, NRPM 102L, NRPM 103, NRPM 106L.*

**NRPM 200      Simulation Lab 2**

- This summative simulation laboratory course is meant to validate entry-level competency in the assessment of simulated patient encounters in order to formulate a field impression and implement an appropriate treatment plan for patients of varying age groups, pathologies, and complaints. *Pre-Requisites: NRPM 113*

**NRPM 201      Clinical Practicum 2**

- This clinical internship course is intended to develop the paramedic student's assessment and management skills on live patients of all age groups with varying pathologies and complaints in the hospital setting. *Pre-Requisites: NRPM 109, NRPM 110, NRPM 111, NRPM 112, NRPM 114.*

**NRPM 107      Rescue and Operations**

- This course develops the learner's knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety. Topics include: Ambulance operations, ICS, MCI, Extrication Techniques, Rescue Awareness, HazMat, and WMD.

**NRPM 202      Special Topics in Pre-Hospital Care**

- This course is intended to ensure student compliance with subject matter authorities in the following certification sub-specialties: Advanced Cardiac Life Support, Pre-Hospital Trauma Life Support, Geriatric Education for EMS, Pediatric Advanced Life Support, and Pediatric Education for Pre-Hospital Providers. Certificates for each sub-specialty will be awarded to the student upon successful completion of those requirements. *Co-Requisites: NRPM 200*

**NRPM 203      Seminar in Emergency Medicine**

- This seminar course provides participants with a final chance to refine any skills associated with the National Registry Psychomotor Examination process; as well as, written examination preparation. *Pre-Requisite: NRPM 202*

**NRPM 204      Capstone: Paramedic Field Practicum**

- This is a capstone clinical experience intended to develop leadership ability and refine advanced life support assessment and treatment skills in the field setting. *Pre-Requisite: NRPM 201, NRPM 202*

<b>Paramedic</b>		
<b>Clock Hours:</b> 1,048	<b>Length of Course:</b>	<b>Student/Instructor Ratio:</b>
<b>Course Type:</b>		Class: 15:1
Traditional	16 months	Laboratory: 8:1
<b>Course Description:</b>		
<p>The Paramedic is an allied health professional whose primary focus is to provide advanced emergency medical care for critical and emergent patients who access the emergency medical system. This individual possesses the complex knowledge and skills necessary to provide patient care and transportation. Paramedics function as part of a comprehensive EMS response, under medical oversight. Paramedics perform interventions with the basic and advanced equipment typically found on an ambulance. The Paramedic is a link from the scene into the health care system.</p>		
<b>Pre-Requisites:</b>		
Must be a Nationally Registered or State Certified Emergency Medical Technician (EMT)		
<b>Credential Awarded Upon Graduation:</b>		
Certificate of Completion		

**PROGRAM OUTCOMES:**

Upon successful completion of the EMT Education Program, the student will be able to:

1. Sit for the National Registry EMT and/or West Virginia EMT Certification Exam.
2. Utilize effective therapeutic communication skills consistent with the role of the professional EMT.
3. Understand and appreciate the legal-ethical issues that influence critical decision-making in the out-of-hospital environment.
4. Employ leadership skills to facilitate fundamental emergency care of patients.
5. Apply fundamental knowledge and problem-solving skills to provide basic emergency care and transportation based on assessment findings for an acutely ill or injured patient.
6. Implement strategies in prehospital care to reduce morbidity and mortality of patients in the field.
7. Uphold the EMT professional standard of care.

**REQUIREMENTS FOR GRADUATION:**

1. Maintain an overall GPA of 70% or higher.
2. Successfully pass all psychomotor (skill) testing.
3. Maintain current CPR certification.
4. Complete a minimum of 10 hours of clinical internship AND provide the required documentation of 10 patient encounters.
5. Meet all financial obligations to Princeton Rescue Squad.
6. Obtain no more than 2 unexcused absences.

<b>Grade Scale</b>	
90% - 100%	A
80%-89%	B
70%-79%	C

60%-69%	D
Below 60%	F

## **ENROLLMENT REQUIREMENTS:**

Applicants wishing to register for the EMT Education Program:

1. Complete this enrollment application.
  - a. Must have a High School Diploma or a GED certificate.
  - b. Submit a photo ID with registration form. (Driver's License)
  - c. Provide a copy of college transcripts (*if applicable*).
2. Pay the enrollment fee of \$17.50
3. Schedule and complete the EMT Student Assessment test. (Please see "Tips for Success: EMT Student Assessment Testing")
  - a. The applicant MUST score NO LESS than an "8.0" on the Reading Level assessment to be considered in the program.
4. Complete 16 hours of Observational Ride-Time with an approved field preceptor and submit a "Student Ride Along" Form for each patient observed during the 16 hours.
5. Applicant must receive a letter of recommendation from the preceptor (*used in step 4*) OR an EMS agency sponsor to move forward in the enrollment process.
6. Attend an Education Consultation meeting with the Education Director and/or Enrollment committee (*comprised of the Instructor, Clinical Coordinator, and Director*).
  - a. All documentation collected during the enrollment process will be reviewed and discussed at length with each applicant. Including an analysis of their Student Assessment Testing and the Ride-Time Documentation.
  - b. An education plan will be provided to the applicant to address any identified weaknesses.
7. At this point, a decision will be rendered based on the outcomes of this series and a letter of approval or denial will be sent to the applicant through the mail.
8. During the initial month of the program (PRIOR to Clinical Rotations) the student must:
  - a. Submit a valid CPR card.
  - b. Submit an immunization record indicating; (Negative TB, Tetanus, MMR, Seasonal Flu shot, HEP B 1 – B3 series) prior to initiating clinical rotations.
  - c. Must begin their Hepatitis B Vaccine series one month prior to starting clinical internship. (See Hepatitis B Vaccine flyer) (Student out of pocket cost)
  - d. Must have completed and passed a criminal background check as directed by the WVOEMS prior to clinical rotations. (Student out of pocket cost)
  - e. Are required to take and pass a drug screening exam prior to clinical rotations.  
Student drug screening must be taken at the designated agency indicated by Princeton Rescue Squad.  
(Cost paid as part of tuition fees)

## **IMPACT ON ABILITY TO BENEFIT:**

### **Per the WV Office of EMS Policy #: 6.1-020113 (WV Code 16-4C-6, 16-4C-8, 64 CSR 48-6)**

A background investigation will be conducted to ensure the applicant does not have a history of crimes against property, person or public trust, and other charges that could pose a public threat. It is the responsibility of the applicant to apply for the criminal background check according to the policy. It is the responsibility of the applicant to make contact with WV OEMS Investigations department if an individual feels they may have cause for concern and provide all necessary documentation for their review. The background check will consist of:

- Digital FD-258 FBI fingerprint
- U.S. Health and Human Services – Office of the Inspector General’s Exclusion List
- Sex offender registries.
- Child support payment status
- National Healthcare Integrity and Protection Data Bank

## **Academic and Technical Standards**

The Initial EMS Education Programs at Princeton Rescue Squad has established technical standards and essential functions to ensure that students have the abilities required to participate and potentially be successful in all aspects of the program. Students are required to meet the technical standards and essential functions for the program as indicated below. If an applicant is unable to meet all of the outlined standards, he/she may withdraw from the program.

Section 504 of the Rehabilitation Act of 1973 [29 U.S. Section 794] prohibits Princeton Rescue Squad’s Educational Institute from denying benefits to an “otherwise qualified” handicapped person solely because of his or her documented handicap. No qualified handicapped person shall be excluded from participation, admission, matriculation, or denied benefits or subjected to discrimination solely by reason of his or her handicap. However, a handicapped person can be required to meet the institutions “academic and technical standards.” The Princeton Rescue Squad’s Educational Department admissions process will not discriminate against qualified handicapped individuals but will expect Initial EMS Education Program candidates and students to meet minimum academic and technical standards.

The National Registry of EMT’s Board utilized this functional job analysis in the development of examination accommodations to meet the requirements of the Americans with Disabilities Act.

### *EMT-Basic Characteristics*

*EMT-Basics work as part of a team. Thorough knowledge of theoretical procedures and ability to integrate knowledge and performance into practical situations are critical. Self-confidence, emotional stability, good judgement, tolerance for high stress, and a pleasant personality are also essential characteristics of the successful EMT-Basic at any level. EMT-Basics also must be able to deal with adverse social situations, which include responding to calls in districts known to have high crime rates.*

### *Physical Demands*

*Aptitudes required for work of this nature are good physical stamina, endurance, and body condition which would not be adversely affected by lifting, carrying, and balancing at times, patients in excess of 125 pounds (250, with assistance). EMT-Basics must be able to work twenty-four-hour continuous shifts. Motor coordination is necessary for the well-being of the patient, the EMT-B, and co-worker over uneven terrain.*

### *Comments*

*Driving the ambulance in a safe manner, accurately discerning street names through map reading, and the ability to correctly distinguish house numbers or business locations are essential to task completion in the most expedient manner possible. Use of the telephone for transmitting and responding to physician's advice is also essential. The ability to concisely and accurately describe orally to physicians and other concerned staff one's impression of the patient's condition is critical as EMT-Basics work in emergency conditions in which there may be no time for deliberation. EMT-Basics must also be able to accurately summarize all data in the form of a written report. Verbal and reasoning skills are used more extensively than math. Math does play a part, however, in determining medication ratios per patient's body weight.*

## **Conclusion:**

Candidates or students who believe they qualify as a party with disabilities must inform Princeton Rescue Squad Education Department’s program staff of the needs associated with their participation in the program a minimum of one month prior to the beginning of the program. All requests will be reviewed by the Education Director together with the

Advisory Board and in communication with the WV Office of Emergency Services. Granting any privileges will be at the discretion of the board.

All special need requests require documentation of the need from your primary care provider and/or specialist at the time of the initial request.

### **RIGHT TO PRACTICE IN EMERGENCY MEDICAL SERVICES**

Simply completing the course requirements and obtaining a course completion certificate does not grant privileges to practice as an Emergency Medical Services Provider. To become a certified provider with privileges to practice in West Virginia you must complete the following:

- Pass Written and Psychomotor testing through the WV OEMS or the National Registry of EMT's.
- Apply to the West Virginia Office of EMS (or any intended state you plan to work in) for certification/licensure as an EMS provider.
- Complete all WVOEMS specified documentation regarding Initial Certification-Education Record, which may require additional in-services and training.
  - You are strongly encouraged to speak with the Faculty or Education Director for the most recent WVOEMS requirements for certification.

### **STUDENT SERVICES: CERTIFYING EXAMINATION PREPARATION**

The goal of Princeton Rescue Squad's Education Department is to ensure the success of its graduates and enhance the potential for employment opportunities. Therefore, the program provides the following measures to increase achievement:

- Onsite Psychomotor Examinations
- Adaptive Test Preparation through EMSTesting.com
- Optional (monthly) psychomotor skill practice sessions
- Assistance with WVOEMS and NREMT application processing
- Free CE training required for initial WV applications including:
  - EVOG training
  - Haz-Mat Awareness training
  - WV EMT Protocol In-service training
  - CPR certification

### **EMT Program Costs:**

#### **Paid Directly to Princeton Rescue Squad for Program Participation: \$600.00**

- The \$600.00 dollars covers the cost of the following:

○ Student tuition	\$279.25	
○ Application Fee	\$17.50	(Non-Refundable Fee)
○ Textbook	\$182.50	(Non-Refundable Fee)
○ Clinical Shirts	\$18.50	
○ CPR Card	\$5.00	
○ UA Drug Screening	\$47.25	
○ EMS Testing	\$50.00	

#### **Paid Directly to Providing Agency By the Student:**

- **Criminal Background Check & State Application Processing Fee: (Avg. Cost)**
  - Application Processing - \$120.00
- **EMT Written Certification Exam:**
  - West Virginia Office of Emergency Medical Services – n/a
  - National Registry of Emergency Medical Technicians - \$80.00

1. **Accepted Methods of Payment**

- Cash, Check, Money Order, or Credit Card

**MODULE DESCRIPTIONS:**