

## Course Description

This three-day course is designed to provide the critical-care nurse (CCRN and PCCN) with a review of AACN's core curriculum. Provided in a lecture format, the instructor will review anatomy and physiology, physical assessment (including utilization of non and invasive assessment tools) and pathophysiology in a systems approach. Topics that are discussed include cardiac, respiratory, neurological, renal, endocrine, hematological, gastrointestinal, psychological and legal aspects of care. This review is not an introduction to the environment of the critical-care area but a comprehensive update for the professional already in practice at the critical-care bedside and preparing for the CCRN Certification Examination.

## Key Learning Outcome

- After completing the program, 80% of participants will report an increase in knowledge and confidence necessary to pass the certification exam.

## Program Objectives

*This program prepares the learner to:*

- Discuss and practice test-taking skills.
- Review critical-care nursing assessment skills, both noninvasive and invasive.
- Review critical anatomy, physiology and pathophysiology of each adult system.
- List and discuss appropriate diagnostic tools for the identification of critical-care complications.
- Analyze patient conditions and devise current evidence-based treatment protocols.

## Agenda

*Sign-in begins at 7:30 am.* Each day includes a one-hour lunch (on your own), as well as a morning and afternoon break of 15 minutes each. The order of lectures presented and break times may vary according to speaker preference.

### Day 1, 8:00 am to 4:30 pm

#### CCRN only

##### **Introduction | Test-Taking Strategies | Ethics & Professional Caring**

Study Planning | Practice Exams | Relaxation Techniques | AACN Synergy Model

##### **Cardiovascular System**

Identification and Treatment Protocols | Physiology of System | Anatomy of Conduction System | Physiology of Coronary Artery Disease | Systolic and Diastolic Heart Failure | Aortic Aneurysm and Dissection | Nursing Interventions | Preload, Afterload and Contractility | Heart Rate and Rhythm

##### **Respiratory System**

Pathophysiology Changes | Pulmonary Function Test | Chronic Bronchitis | Emphysema | Severe Asthma | Pneumonia | Pulmonary Fibrosis and Hypertension | Clinical Manifestation of Trauma | Acid-Base Scale | ABG Differences | Ventilator Changes | Pathophysiology of ARDS vs. Cardiogenic Pulmonary Edema | Ventilator Parameters

### Day 2, 8:00 am to 5:00 pm

#### CCRN/PCCN

##### **Hematology System**

Coagulopathies | Bleeding | Blood Productions and Electrolytes | Review of DIC

##### **Renal System**

Function and Electrolytes | Acid/Base Balance | Acute Kidney Injury | Phases and Treatment Modalities | Nursing Interventions

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### **Gastrointestinal (GI) System**

Bleeding and Resuscitation Interventions | Esophageal Varices | Acute Hepatic Failure | Acute and Severe Acute Pancreatitis | Bowel Ischemia and Infarction | Abdominal Hypertension | *C. Difficile* | Whipple Procedure

### **Endocrine System**

DI | SIADH | HHS | Laboratory Findings

### **Neurological System**

Use of Oxygen and Glucose | Intracranial Pressure | Types of Strokes | Traumatic Brain Injury | Seizure Activity | Spinal Cord Injury, Spinal Shock and Paroxysmal Sympathetic Activity | Antisocial Aggression and Violence | Pain, Agitation and Delirium | Substance Abuse | Suicidal Behavior | PTSD

### **Multisystem and Muscular System**

Critical Nursing Assessment Skills | System Failure, Sepsis and Complication of Each Failing System | Rhabdomyolysis | Healthcare-Associated Infections | PADIS Program | Multisystem Dysfunction | Classification of Shocks

## **Day 3, 8:00 am to 4:30 pm**

### **PCCN only**

#### **Introduction | Test-Taking Strategies | Ethics & Professional Caring**

Study Planning | Practice Exams | Relaxation Techniques | AACN Synergy Model

#### **Cardiac System**

Identification and Treatment Protocols and Guidelines | Physiology of the Cardiac System | Anatomy of the Conduction System | Physiology of Coronary Artery Disease | Systolic and Diastolic Heart Failure | Aortic Aneurysm and Dissection | Nursing Interventions | Preload, Afterload and Contractility | Heart Rate and Rhythm

#### **Respiratory System**

Pathophysiology Changes | Pulmonary Function Test | Chronic Bronchitis | Emphysema | Severe Asthma | Pneumonia | Pulmonary Fibrosis and Hypertension | Clinical Manifestation of Trauma | Acid-Base Scale | ABG Differences | Ventilator Changes | Pathophysiology of ARDS vs. Cardiogenic Pulmonary Edema | Ventilator Parameters

## **Accreditation**

**RN/LPN/LVN/Other: 14.5 Contact Hours (Two Days Attendance)  
21.5 Contact Hours (Three Days Attendance)  
Includes 8 Pharmacology Contact Hours**

MED-ED, Inc is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation (**ANCC**).

MED-ED, Inc. is an approved provider by the following State Boards of Nursing: **Florida**/FBN 50-1286, **Iowa**/296, **California** #CEP10453.

If your profession is not listed, we suggest contacting your board to determine your continuing education requirements and ask about reciprocal approval. Many boards will approve this seminar based on the accreditation of the boards listed here.

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