

**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title: Advanced Cardiovascular Life Support**

**Prefix and Course Number: RT 402**

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**Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

Describe and apply the following in a patient care situation:

- A. Electrocardiography interpretation
- B. Cardiovascular pharmacology
- C. Airway management
- D. Electrical therapy/defibrillation
- E. Roles of the team leader and team members
- F. Elements of effective resuscitation team dynamics
- G. Recognition and care of respiratory arrest
- H. Recognition and treatment of bradycardia's
- I. Recognition and treatment of tachycardia's
- J. Recognition and treatment of pulseless electrical activity and asystole
- K. Recognition and treatment of pulseless ventricular tachycardia and fibrillation
- L. Recognition and treatment of acute coronary syndrome
- M. Recognition and treatment of acute stroke
- N. Post resuscitation care

**Course Outline:**

- I. AHA course objectives and content for ACLS, instructor introduction
- II. Electrocardiography interpretation
  - A. Basic electrophysiology review
  - B. Atrial rhythms
  - C. Junctional rhythms
  - D. Ventricular rhythms
  - E. AV blocks
- III. Electrical therapy/defibrillation
  - A. Defibrillator operation
  - B. Transcutaneous pacing
  - C. Synchronized cardioversion
  - D. Defibrillation
- IV. Airway management
  - A. Oxygen therapy equipment
  - B. Airway management maneuvers
  - C. Bag valve mask ventilation
  - D. Airway suctioning
  - E. Simple airway adjuncts (oropharyngeal airway/nasopharyngeal airway)
  - F. Advanced airways and endotracheal intubation
    - 1. Technique

- 2. Confirmation of placement
- G. Supraglottic airways (King tube, Combitube, LMA)
- V. Cardiovascular pharmacology
  - A. Medications used in pulseless V-Tach / V-Fib
  - B. Medications used in stable/unstable tachycardia's
  - C. Medications used in stable/unstable bradycardias
  - D. Medications use in acute coronary syndrome
  - E. Beta Blockers
  - F. Thrombolytics
  - G. Miscellaneous cardiac medications
- VI. ACLS core cases
  - A. Recognition and care of respiratory arrest
  - B. Recognition and treatment of bradycardia's
  - C. Recognition and treatment of tachycardia's
  - D. Recognition and treatment of pulseless electrical activity and asystole
  - E. Recognition and treatment of pulseless ventricular tachycardia and fibrillation
  - F. Recognition and treatment of acute coronary syndrome
  - G. Recognition and treatment of acute stroke
- VII. Post resuscitation care
- VIII. Team dynamics, team member roles and responsibilities