

Cardiovascular Technologists and Technicians

SOC: 29-2031 • Career Profile Report

■ Key Facts

\$67,260

Median Salary

64,700

Employment

+3.0%

Growth Rate

■ Requirements & Salary Range

Education: Associate's degree

■ Automation Risk Assessment

Low Risk - 8.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■■ Work-Life Balance

6.9/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	5.4/10	Investigative	8.6/10
Artistic	4.8/10	Social	9.0/10
Enterprising	5.4/10	Conventional	6.2/10

■ Top Skills Required

Communication skills, Detail oriented, Interpersonal skills, Physical stamina, Technical skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Cardiovascular Technologists and Technicians assist physicians in **diagnosing and treating heart and blood vessel conditions**. They perform diagnostic imaging, monitor patient cardiovascular health, and operate specialized medical equipment. Their work is critical in healthcare, cardiac care, and patient monitoring.

This career is well suited for individuals who enjoy healthcare, technical procedures, and working with patients to support heart health.

What Do Cardiovascular Technologists and Technicians Do?

These professionals conduct tests, monitor patients, and assist in cardiac procedures under the supervision of physicians.

Common responsibilities include:

- Performing electrocardiograms (EKGs), echocardiograms, and stress tests
- Monitoring heart activity during procedures
- Preparing patients for cardiac diagnostic tests or treatments
- Operating and maintaining specialized cardiovascular equipment
- Assisting physicians in diagnostic and interventional procedures
- Recording and analyzing test results
- Ensuring patient safety and comfort during procedures

Key Areas of Cardiovascular Technology

Technologists and technicians may focus on specific diagnostic tests, procedures, or patient populations:

- Diagnostic Testing: Performing EKGs, echocardiograms, and stress tests
- Interventional Procedures: Assisting with catheterizations and other cardiovascular interventions
- Patient Monitoring: Observing heart activity and vital signs
- Equipment Operation and Maintenance: Using and calibrating cardiovascular diagnostic tools
- Patient Education and Support: Explaining procedures and promoting cardiovascular health

Skills and Abilities Needed

These professionals combine medical knowledge, technical skills, and patient care abilities.

Core Professional Skills

Personal Qualities That Matter

Education and Career Pathway

This role typically requires formal education and clinical training:

- Associate or Bachelor's Degree: Cardiovascular technology, cardiovascular sonography, or related field
- Clinical Internship or Practicum: Hands-on experience in cardiac diagnostics
- Certification (optional but recommended): Credentialing through professional organizations
- Continuing Education: Staying current with new diagnostic techniques and cardiovascular technology
- Specialized Training (optional): Electrophysiology, echocardiography, or vascular studies

Where Do Cardiovascular Technologists and Technicians Work?

They are employed in organizations that provide cardiac care and diagnostics:

- Hospitals and Cardiac Care Centers
- Outpatient Diagnostic Clinics

- Physician Offices and Specialty Practices
- Research and Clinical Laboratories
- Rehabilitation and Monitoring Facilities

Work environments include labs, patient care areas, hospitals, and clinical testing centers.

Is This Career Difficult?

This career requires technical skill, precision, and attention to patient safety. Technologists must follow strict protocols and accurately operate complex diagnostic equipment.

Who Should Consider This Career?

This career may be a strong fit if you:

- Enjoy healthcare, diagnostics, and technical procedures
- Are detail-oriented and precise
- Have strong communication and patient care skills
- Can work in high-pressure or clinical environments
- Want a career supporting cardiovascular health and patient care

How to Prepare Early

- Take courses in biology, anatomy, physiology, and medical technology
- Gain experience through internships, clinical rotations, or volunteer work
- Develop skills in operating medical equipment and patient interaction
- Explore degree programs in cardiovascular technology or related fields
- Stay informed about advances in cardiac diagnostics and treatments

Cardiovascular technologists and technicians assist in diagnosing and treating heart and blood vessel conditions, using specialized technology and patient care skills to support cardiovascular health.

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O*NET*

Source: <https://www.bls.gov/ooh/healthcare/cardiovascular-technologists-and-technicians.htm>