



American Academy of Thermology

## **AAT Technician Member Certification Qualification Course**

### **Self-Directed, Webinar Based, or Live Format**

Inquiries should be directed to [contact@aathermology.org](mailto:contact@aathermology.org)

### **Course Outline**

This comprehensive AAT Certification Qualification Training Course is designed for Thermographic Technician/Technologists. The AAT Certification Qualification Training Course will demonstrate software and camera set up and operation, exam room set up and procedures, study protocols and compliance instructions for AAT Guidelines for Medical Infrared Thermal Imaging.

AAT Certification shows an applicant's commitment to education and training in Medical Thermal Imaging. Successfully completing all of the components of an AAT Certification process means that the candidate has demonstrated the minimum necessary skills for the clinical administration of Medical Infrared Thermal Imaging and the knowledge base needed to articulate the pathophysiology under study.

Clinical instruction provided in the AAT Technician Certification Qualification Course will ensure that the technician's technical operation and clinical imaging will comply with AAT Thermographic Guidelines. These Guidelines include the Internationally Peer Reviewed Guidelines for Breast Thermography and the AAT Guidelines for Neuromusculoskeletal Infrared Thermography (Sympathetic Skin Response Studies).

The AAT Technician Certification Qualification Course is structured to prepare the participant for AAT Technician Certification requirements. Individuals who desire to pursue AAT Certification must meet all AAT Certification requirements, including submission of completed studies. Procedures to obtain AAT Certification will be outlined in the Certification Qualification Course.

**Purpose:**

To provide information related to and training for the competent administration of infrared medical imaging for Thermographic Technicians/Technologists. Live demonstration is part of the Course Curriculum.

**Target Audience:**

This is a basic level training program intended for thermology technicians/technologists with an interest in conducting Medical Infrared Thermal Imaging examinations. More experienced thermographers will benefit from the review of core curriculum and by enhancing their skills for AAT Certification application.

**Objectives:**

After participating in this training course, participants should be able to:

- 1) Have a basic understanding of the physics and pathophysiology related to Medical Thermal Imaging.
- 2) Understand the functioning and operations of infrared imaging cameras and have a working knowledge of thermal imaging software programs.
- 3) Recognize the complexities of environment and subject variables in the acquisition of quality infrared images needed for medical physiological evaluations.
- 3) Familiarize attendees with AAT Clinical Guidelines for Neuromusculoskeletal, Breast, and Oral-Systemic Imaging.
- 4) Demonstrate an understanding of examination protocols.
- 5) Understand the minimum requirements for image storage and presentation.

## Principal Faculty: Robert G. Schwartz, MD

### Overall Background

**Physician Practice:** Robert G. Schwartz, MD is internationally recognized as an innovator and leading practitioner in the neuromusculoskeletal field. Dr. Schwartz owns and operates Piedmont Physical Medicine and Rehabilitation, P.A., in Greenville, South Carolina. Within his practice, he specializes in complex chronic pain, physical medicine & rehabilitation, peripheral vascular medicine and regenerative medicine.

Dr. Schwartz completed his undergraduate studies at The University of Michigan in Ann Arbor, Michigan, attended medical school at Wayne State University in Detroit, Michigan and completed his residency in Physical Medicine & Rehabilitation at the University of Texas Health Science Center in San Antonio, Texas. He is board certified In Physical Medicine & Rehabilitation, Pain Management and Electrodiagnostic Medicine. He is also a fellow of the Society For Vascular Medicine & Biology.

### Professional Titles & Guest Professorships:

As a result of his accomplishments Dr. Schwartz has been able to foster a wide array of professional titles and relationships. He has been the Medical Director of Physical Medicine and Rehabilitation at Bon Secours St. Francis Hospital since 1984. He is actively engaged with the South Carolina Medical Association serving on its Inter Specialty Council since 2000 and formed the South Carolina Society for Physical Medicine and Rehabilitation in 1987. After serving two terms as its president for two terms Dr. Schwartz still remains the Society's Executive Director.

Dr. Schwartz has a depth of long standing professional and community relationships as a result of such long standing commitments to community service. He is actively engaged with the Office of Economic Development for the City of Greenville, South Carolina, and is the Chairman of The International Infrared Imaging Medical Advisory Board (members are represented by Presidents of Societies from diverse countries including S. Korea, Japan, Brazil, Germany and the United States).

Dr. Schwartz enjoys a broad array of academic relationships. He has held guest professorships at the University of Texas Health Science Center at San Antonio, The Rehabilitation Institute of Chicago, The Medical University of South Carolina, Wake Forest Institute of Regenerative Medicine, Bowman Gray University, N.Y. U. School of Medicine, Sao Pablo Medical School in

Brazil, the Schmerz Clinic in Rottenberg, Germany, Chengdu International Health Care City, Chengdu, China, and the Guandong Hospital of Traditional Chinese Medicine, Guangdong, China.

While there has been a heavy emphasis on medical schools and related hospital systems, Dr. Schwartz also has enjoyed active participation in academic Biophysics. He has been guest professor at the University of Bologna Department of Physics in Italy, a faculty member in the Bioengineering Department at Clemson University, South Carolina, and is currently actively engaged in project development with the Department of Biophysics at Florida State University, Florida. Dr. Schwartz is a longstanding member of the Biologic Electromagnetics in Medicine Society.

**Body of Work:**

Dr. Schwartz's body of work includes numerous national and regional medical directorships, committee and organizational chairs, memberships in multiple professional associations in leadership roles, multiple medical board certifications and fellowships, medical licensure in several states.

He has lectured extensively throughout the United States, South America, Asia, and Europe. He has a long list of distinguished peer reviewed publications. He has in excess of 100 of both invited presentations and publications. His accomplishments include innovations in neuromusculoskeletal thermography, prolotherapy, regenerative medicine, electroceutical pain management, and Diagnostic Musculoskeletal Ultrasonography.

Dr. Schwartz embraces an integrated, holistic approach to health care. Not only does he implement these innovations in his own clinical practice, Dr. Schwartz reaches out the public at large through his office web site [www.piedmontpmr.com](http://www.piedmontpmr.com) which receives thousands of visitors every month. Due to his relentless dedication, paradigm innovation, and pioneering approach to tough multi discipline medical dilemmas Dr. Schwartz has proven himself to be a leader in medicine.