



Monroe Community College

STATE UNIVERSITY OF NEW YORK

Inspiring every day.



SCHOOL OF APPLIED SCIENCES & TECHNOLOGIES

Solar Thermal Technology Certificate

BUILD JOB-READY SKILLS THAT HELP YOU SHINE IN THE JOB MARKET. In MCC's Solar Thermal Technology certificate program, you'll get a learning opportunity you can't get anywhere else: hands-on experience in our Solar Thermal Auxiliary Resource (STAR) Lab. Built by students for students, this 40-foot-high outdoor lab simulates an actual rooftop panel installation. You'll develop practical, cutting-edge skills that will impress employers in the fast-growing solar energy industry. You can get MCC's solar thermal training as a stand-alone certificate or as part of our heating, ventilation and cooling (HVAC) associate degree program. Either way, you'll create big opportunities for yourself in the job market.

PROGRAM DESCRIPTION

The Solar Thermal Certificate is designed for students who seek to enter the solar-energy industry as installers and service technicians, and for people already working in heating, ventilating, and air conditioning (or related areas) who want to improve their job skills. You'll get the hands-on training necessary to install and work with solar thermal systems, along with classroom instruction that covers fundamentals of solar heat collection and transfer, building codes, principles of solar thermal systems, and related subjects. After earning the certificate, you'll be prepared to pass the North American Board of Certified Energy Practitioners (NABCEP) Solar Thermal Entry Level Certification Exam.

Students interested in this program may also be interested in MCC's Air Conditioning Technology: Heating and Ventilation program and Heating, Ventilating, Air Conditioning program.

A STRONG START—ACADEMICALLY AND FINANCIALLY!

MCC's low tuition plus financial aid opportunities help make a high-quality education affordable. You could qualify for federal grants, workforce grants, scholarships, and more. Visit www.monroecc.edu/go/finaid or call 585.292.2050.

APPLY TODAY!

To learn more about MCC, visit us on the web at www.monroecc.edu. Apply today at admissions.monroecc.edu or contact the Admissions Office at 585.292.2200 to schedule a visit.

WHERE WILL YOU GO?

Start your career with employers like these:

- EMCOR Services Betlem
- Isaac Commercial & Industrial Services
- NOCO Energy Corp
- Daikin McQuay International
- American Climate Tech
- Tradesman International
- Lennox International

Your job title could be:

- Solar Photovoltaic Installer
- HVAC Technician
- Solar Thermal Installer and Technician
- Solar Energy Installation Manager
- Solar Sales Representative and Assessor
- Heating and Air Conditioning Mechanic and Installer

"Half a day's sunlight in the US provides enough energy to run our country for one year."

— Bill Horton, HVAC/R Lecturer

CURRICULUM OVERVIEW

SOLAR THERMAL TECHNOLOGY CERTIFICATE

Distribution Requirements	Credit Hours
FIRST SEMESTER: 19 Credit Hours	
HVA 101 Basic Refrigeration Theory	3
HVA 103 Heating Systems	3
HVA 105 Electric and Motor Controls	3
HVA 202 Boiler Systems	3
MTH 135 Introduction to Technical Mathematics	4
STT 101 Introduction to Solar Thermal Technology	3
Total	19
SECOND SEMESTER: 16 Credit Hours	
HVA 102 Air Conditioning Theory	3
HVA 104 Commercial Air Conditioning and Heat Pumps	3
PHY 100 Preparatory Physics	4
STT 102 Solar Thermal Installation Practices	3
STT 201 Troubleshooting and Preventative Maintenance for Solar Thermal Systems	3
Total	16
TOTAL CREDITS	35