



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.

“Half a day’s sunlight in the US provides enough energy to run our country for one year.”

–Bill Horton,
HVAC/R Lecturer

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.

CURRICULUM OVERVIEW

FIRST SEMESTER:

- HVA 101 Basic Refrigeration Theory
- HVA 103 Heating Systems
- HVA 105 Electric and Motor Controls
- HVA 202 Boiler Systems
- MTH 135 Introduction to Technical Mathematics
- STT 101 Introduction to Solar Thermal Technology

SECOND SEMESTER:

- HVA 102 Air Conditioning Theory
- HVA 104 Commercial Air Conditioning and Heat Pumps
- PHY 100 Preparatory Physics
- STT 102 Solar Thermal Installation Practices
- STT 201 Troubleshooting and Preventative Maintenance for Solar Thermal Systems

Total Credits: 35



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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

Average starting salary: \$30,000 per year.

A STRONG START—ACADEMICALLY AND FINANCIALLY!

MCC's low tuition (\$1,708 per semester) 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.

AMONG THE BEST COMMUNITY COLLEGES

MCC is part of the State University of New York (SUNY) and recognized as being among the 19 most innovative community colleges in the United States as a member of the League for Innovation in the Community College. The League's members demonstrate educational leadership in academics, technology, workforce development, and administration.

FIND OUT MORE

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.