

PROGRAM OF STUDY

ZERO NET ENERGY (ZNE) TECHNOLOGY Certificate of Achievement

Zero Net Energy Technician has the general knowledge of many variations of renewable energies. The technician can serve as a liaison between building stakeholders and a specialized technician or can continue to pursue a specialized credential. Zero Net Energy Technicians (ZNET) and building stakeholders work in a team environment, coordinating maintenance schedules, mechanical and electrical breakdowns. Together they verify that the building systems are working within the design conditions. This introductory certificate focuses on key factors involving design of Zero Net Energy (ZNE) buildings and maintenance. ZNE building design process is explained. Students will learn the fundamentals of the ZNE building design through each step of design and construction process - from predesign to occupancy and operations. Operation and proper maintenance of the energy systems which include, HVAC, Solar, lighting and envelope are analyzed in depth.

Career Opportunities in Energy Systems Technology

1. Green construction 2. Facility planning technician 3. Facility management 4. Facility engineers 5. LEED sustainable technician 6. Weatherization technician 7. Incumbent worker 8. Environmental technician 9. Building insulation technician 10. Sustainability planners

Required Courses:

ESYS 001	Introduction to the Power Industry	3
ESYS 002	Electricity and Electrical Theory	3
ARCH 002	Materials Of Construction	4
ACR 075	HVACR Systems Design	3
ACR 077	Energy Conservation Methods for HVACR	3

Total Units

16

PID 302