

Take your career The positive outcome is
in a new direction *you!*



State Energy Sector Partnership Training Grant

Michigan has become the new center of the world's electric vehicle and advanced energy storage industries. Michigan is also beginning to make the switch to renewable energy to remain economically viable and protect our environment. The State Energy Sector Partnership Grant funds training for qualified dislocated workers or unemployed adults to teach them the skills required to secure employment in these industries.

The following educational partners are offering certificate programs funded by the SESP Grant. Ideal candidates should have an interest in working in these industries, experience in a related field (e.g. automotive, manufacturing), strong prerequisite academic skills and a commitment to finish the certificate program of their choosing. All courses must be completed by the end of 2012 to be covered by the grant.

Upon completion of one of these programs, participants are in a position to be hired in a number of good to excellent paying jobs, including electrical equipment installer (medium wage \$30,000), engineering technician (\$50,000) or electrical engineer (\$80,000). Actual pay determined, in part, by position, experience and market demand.

For more information about these programs please contact:

David Shevrin, Local SESP Coordinator
davidshevrin@yahoo.com
(248) 788-9511, or

Kris Betts, Intake Coordinator
kbetts@macomb-stclairworks.org
(586) 263-8388

Wayne State University Graduate and Undergraduate Certificate

In conjunction with the SESP Grant, WSU is offering a Graduate Certificate in Alternative Energy Tech or Electric-Drive Vehicle Engineering with a concentration in Advanced Energy Storage (AES). This is a 3 course 12 credit program available to dislocated workers or unemployed adults with a Bachelor in Engineering, Engineering Tech or related science, and a 2.8 GPA.

Courses paid for by the SESP grant include:

- Advanced Energy Storage (required)
- Fundamentals in Alternative Energy Technology
- Fundamentals of Battery Systems for Electric and Hybrid Vehicles
- Power Management and Applications of Energy Storage Systems
- Fundamentals of Fuel-cell Power Systems for Transportation
- Energy Economics and Policy
- Energy and the Environment

WSU is also offering an Undergraduate Certificate in AES. This is a 4 course 12 credit program requiring an Associate in Engineering **or** at least 30 credit hours in math and electrical, mechanical, manufacturing, computer or other technical courses.

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Courses paid for by the SESP Grant include:

- Introduction to Advanced Energy Storage (required)
- Power Management and Applications of Energy Storage Systems (required)
- Energy Sources and Conversion
- Energy Storage Systems for Hybrid and Electric Vehicles
- Fundamentals of Hybrid and Electric Vehicles
- Allied Thermodynamics

Macomb Community College Advanced Energy Storage Certificate Program

Macomb Community College is offering a Certificate in Advanced Energy Storage. This is an excellent program for either younger people looking to gain entry into the advanced battery or automotive industry, or for experienced degreed professionals looking to retool their skills to help qualify for the green automotive jobs of the future.

The program is designed as an intensive 2 course program. Courses range from 4 – 8 weeks each, so participants can either quickly start looking for a job, apply for 6 credits to go towards a degree at MCC or possibly transfer to another institution.

Courses covered by the SESP Grant include:

- High Density Mobile Batteries - An introduction to rechargeable batteries for mobile electric applications at the battery cell, module, and pack level.
- High Density Mobile Battery Applications - Provides an introduction to Hybrid Electric Vehicles. Topics include hybrid systems, hybrid batteries, regenerative braking, safety procedures, hybrid maintenance and diagnostics, and connections to the smart grid.

Participants are required to have a minimum of a High School Degree, or GED, and at least a 10th Grade Math level (TABE Test required). Previous experience working in an automotive or manufacturing environment is recommended.

Henry Ford Community College Basic Renewable Energy Certificate Program

HFCC is offering a Basic Certificate in Renewable Energy. The Basic Certificate is a 5 course, 10 credit program requiring a High School Degree or GED. Students must complete the Basic Certificate courses before taking the Advanced Certificate courses listed below.

Basic Certificate courses covered by the SESP Grant include

- Survey of Renewable Energy
- Geothermal Systems and Water Furnace Technology
- Wind, Solar and Fuel Cell Technology
- Smart Home Control Technology
- Co-generation and Back Up Power

Classes are held in the daytime or evening depending on the section, and are all held at the HFCC Main Campus. All books and fees are covered by the grant. Once approved for the grant students must apply on line, and register for classes on line.