

SESP: The State Energy Sector Partnership Program

The State Energy Sector Partnership Program (SESP) is a three year, six-million dollar American Recovery and Reinvestment Act (ARRA) grant awarded through the U.S. Department of Labor. The New Mexico Department of Workforce Solutions (NMDWS) administers the grant on behalf of the State Workforce Development Board (SWDB). Policy and oversight of the grant is the responsibility of the New Mexico Green Industry Council (GIC), which is a subcommittee of the SWDB

Training

A key goal of the SESP grant is to provide training in renewable energy/energy efficiency occupations that is responsive to business and worker needs. The New Mexico SESP grant has identified four priority industries for training workers to meet the needs of the state's green energy sector:

- Solar
- Wind
- Green Building/Energy Efficiency
- Biofuels

Training services are being provided through the State's local workforce development boards. If you are interested in finding out more about SESP training, visit <http://www.greenjobs.state.nm.us/sespEligb.html> or visit your local Workforce Connection Center. Your nearest Workforce Connection Center can be found by visiting <http://www.dws.state.nm.us/dws-offices.html>.

Additionally, in an effort to increase the capacity of the solar, wind, green building/energy efficiency and biofuels industry sectors, and to better meet the needs of existing and incoming businesses in New Mexico, NMDWS has awarded funds to four consortia of education providers, businesses, and workforce organizations to develop statewide "Centers of Excellence" programs. The purpose of these Centers of Excellence is to enhance and expand existing green sector training programs and develop new programs in emerging green industries. The funds will assist in the development and implementation of innovative collaborations between the business, workforce, economic development and educational systems.

Centers of Excellence

Biofuels Center of Excellence –

Santa Fe Community College – <http://biofuels.greentraining.sfcc.edu/>

Green Building/Energy Efficiency Center of Excellence –

Santa Fe Community College – <http://greenbuilding.greentraining.sfcc.edu/>

Solar Center of Excellence – Central New Mexico Community College –

<http://www.cnm.edu/campus/wtc/>

Wind Center of Excellence – Mesalands Community College –

<http://www.mesalands.edu/wind/default.htm>

Additional information about green jobs in New Mexico can be found at the NM Green Jobs Portal website www.greenjobs.state.nm.us

For more information about

- [Santa Fe Community College](#)
[Center of Excellence/Green Building & Energy Efficiency](#)

or

- [Central New Mexico Community College](#)
[Center of Excellence/Solar](#)

Go to <http://www.dws.state.nm.us/new/SESP/>

If you have any questions regarding the SESP Program, please contact:

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Biofuels Center of Excellence (BCX)

Curriculum Overview

Purpose:

Provide classroom and laboratory training to workers/entrepreneurs entering Biofuels industry presented in one of four Biofuels modules: Algae; Biogas and Pyrolysis; Biodiesel; or Ethanol.

Provide health and safety training to workers/entrepreneurs entering the Biofuels industry.

Provide business plan, financing and marketing information to all BCX module trainings. Present potential workers/entrepreneurs with resource assessment tools for all Biofuels curriculum areas. Provide follow-up resources to students.

Objectives:

1. Provide required training necessary to issue Biofuels Center of Excellence Certification from the Santa Fe Community College to workers/entrepreneurs entering the Algae, Biogas and Pyrolysis, Biodiesel, or Ethanol Biofuels industry.
2. Provide required training necessary to issue OSHA General Industry Standards 10 hour Certification to workers entering the Biofuels industry.
3. Develop skills in Biodiesel production and laboratory testing methods necessary for analysis of biofuel and biofuel feed stock for optimum production potential.
4. Introduce potential employees/employers in the developing Biofuels industry to regulations applicable and resources available for fuel testing standards.
5. Introduce potential employees/employers in the developing Biofuels industry to regulations applicable and resources available for safety and health hazards.
6. Provide an overview of the history of the Biofuels industry and the current economics, opportunities and challenges of working in this emerging market for startup and existing corporate operations.

Course Description:

Biofuels courses will be offered in classroom and laboratory format, simulating a hands on, work place environment of current Biofuels industry production facilities. Individual courses descriptions and hourly requirements as follows for each module in Algae; Biogas and Pyrolysis; Biodiesel; and Ethanol. Each module includes a prerequisite OSHA for Biofuels training class of 14.5 hours and a self contained Business Development component.

BCX Modules

OSHA 10 for Biofuels

Biomass Energy: Biogas & Gasification

Algae for Biofuels

Ethanol Production

Biodiesel Production

Business Development for Biofuels

Business Development for Biofuels Module Overview

Purpose:

Provide business plan/financing and marketing information to all BCX module trainings. Present potential workers/entrepreneurs with resource assessment tools for all Biofuels curriculum areas. Provide follow-up resources to students.

Objectives:

Provide required training necessary to issue Biofuels Center of Excellence Certification from the Using graphics featured in “Project Dev Process Explanation” To provide an overview of:

1. Development Cycle in 4 stages: Pre-Development Stage, Development State, EPC (Engineering, Procurement, Construction), O&M (Operations and Management) using graphics featured in “Project Dev Process Explanation.doc”
2. The 3 basic documents that must be produced to develop a renewable energy project: Feasibility Study, Business plan, Project Offering.
3. An understanding of the order, timing and purpose of each of the documents featured in “Project Dev Process Explanation.doc” that accompanies this document
4. Very brief overview of the Six Elements of a Renewable Energy Project using graphics featured in “Project Dev Process Explanation.doc” that accompanies this document: Team, Feedstock, Technology, Offtake/Market, Site, Funding
5. Start Writing a Feasibility Study using Feasibility Study (The Assessment Tool) “BUSINESS DEVELOPMENT ANALYSIS MODEL”

Course Description:

The content will be presented in two modules of PowerPoint presentation. The first introductory 30- minute portion is included at the beginning of each technology workshop. The second, more in depth module is 60- minutes in length, including class discussion. The PowerPoint presentation will be supported by the required instructor’s manual and other documents, survey instruments, examples of industry-standard forms and resource lists that will be included in a student handout packet.

BCX Algae Module Planner

- Introduction to Biofuels Industry Business Development
- For inclusion in 4 BCX technology workshop curricula
- The two sections – 30-minute introduction and 60-minute detail – to be incorporated into the four BCX biofuels technologies curricula to introduce the trainees into the business development process for a biofuels project.

Materials

PowerPoint Slide Shows:

- 30-minute Introduction with Notes for Instructor
- 60-minute Detail

Handouts:

- Business Development Analysis Model
- Project Development Process Explanation

Other Resources

Are listed in the handouts.

Adaptations

The instructor can elect to add their feedstock and market/offtake suggestions to these modules.

Instructor is encouraged to read and present the accompanying two handouts listed in Materials.

BCX Algae Module Evaluation:

- Trainee in-workshop discussion participation.
- Trainee's successful completion of their "Back of the Napkin" Feasibility Study.

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