

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

**Quarterly Narrative Progress Report
Trade Adjustment Assistance Community College and Career Training
(TAACCCT) Grants**

Project Name:

The Colorado Online Energy Training Consortium

Grant Number:

TC-22506-11-60-A-8

Award Year:

2011

Report Quarter Ending:

September 30, 2013

Date of Submission:

11/05/2012

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A. Summary of Grant Activities

COMPARATIVE COHORTS " Created cohort research design " Worked with all 15 colleges to identify synchronous cohorts for fall12 in DE and energy. 44 DE cohorts sets identified and 3 energy cohorts have been identified to date. " Initiated outreach to colleges to identify asynchronous cohorts in DE and energy for fall12 and spring13. PRECOURSE SURVEY " Developed and disseminated to all colleges. DATA " Created work team to explore tech issues to share Banner data and non-system school quantitative data for analysis. ESCF " Developed a data collection system using Qualtrics - the Electronic Student Case File (ESCF) - to facilitate the process of gathering and reporting data. " Began the process of creating a consent form for ESCF. " Evaluated career coach and project manager feedback surveys in order to redesign ESCF. TRAINING " Staff participated in consortium training conference in four tracks energy, DE, data, and career coaching DE The DETF met three times this quarter. They are making great progress toward recommendations around redesign at 13 system colleges. Energy RRCC, FRCC, and AIMS made great progress this quarter around content development for certificate/degree programs to be offered online in upcoming terms.

B. Status Update on Leveraged Resources

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Provide an update on the organizations that contributed the resources:

Complete College America - DE redesign CCCS - DE redesign DETF policy and implementation group CCD used Walmart grant funds for classroom technology NROC is providing Dev Math for free as a pilot

Provide an update on the ways in which the resources were used during the current quarter:

Complete College America - DE redesign CCCS - DE redesign DETF policy and implementation group CCD used Walmart grant funds for classroom technology NROC is providing Dev Math for free as a pilot

Comments:

Complete College America - DE redesign CCCS - DE redesign DETF policy and implementation group CCD used Walmart grant funds for classroom technology NROC is providing Dev Math for free as a pilot

During this quarter, did you receive any additional leveraged resources beyond what is listed in your statement of work?

Yes

C. Status Update on Employer(s) Involvement

Discuss how the required employer(s) has been involved during the current phase of the project.

Each of the energy colleges met with their advisory boards once this quarter.

Outline specific roles and contributions of the employer(s) during this quarter.

Assist with curriculum review. Provide job placement and internship opportunities for students.

Identify any challenges encountered/resolved in the development and management of the employer involvement.

n/a

Discuss new employers and commitments that may have been added to support the project.

n/a

Comments:

n/a

Have you had any consultation or advisory meetings with business or employer partners during this quarter?

Yes

Were there any direct hires of program of study completers by employer partners during this quarter?

Yes

Were internships or other work-based learning opportunities posted during this quarter?

Yes

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Did you acquire any additional employer partners during this quarter?

No

D. Timeline for Grant Activities and Deliverables

General Comments:

We have been slower than we initially planned in implementation of energy offerings. In DE 13 schools are running some kind of redesign and this will be scaled up as the DETF wraps up their work in Feb 13.

How many programs are you planning to offer?

27

As of this quarter, how many programs have you launched to date?

16

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Activity ID: 1

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 1.1 Activity 1

Narrative: Redesign developmental education

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 10/07/2011

Actual End:

Notes: No Notes Recorded for this Activity.

Activity ID: 2

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 1.1 Activity 2

Narrative: Develop alternative assessments and targeted remediation modules

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 10/07/2011

Actual End:

Notes: No Notes Recorded for this Activity.

Activity ID: 3

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 1.2 Activity 1

Narrative: Pilot the use of OER developmental math courses

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 01/06/2012

Actual End:

Notes: 06/06/2012: CCD project

Activity ID: 4

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 2.1 Activity 1

Narrative: Personalized guidance

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 01/06/2012

Actual End:

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Notes: No Notes Recorded for this Activity.

Activity ID: 5

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 2.1 Activity 2

Narrative: Develop statewide Energy Career Website

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 08/01/2012

Actual End:

Notes: 06/06/2012: We have been meeting with <https://secure.collegeincolorado.org/> to make an energy hub but have not started the contract.

Activity ID: 6

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 2.1 Activity 3

Narrative: Dev systemic processes for identifying & referring students from workforce ctrs to training programs

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 09/28/2012

Actual End:

Notes: 06/06/2012: Our partnership with workforce has been a significant delay on this project. June 2012 is when the contract for services was finally executed and we will wait on CDLE until Sept for complete expenditure authorizations.

11/05/2012: CDLE updated EA's this quarter. The partnership is only at some of the WF centers in the state. There is a gap in this area at some colleges because WF did not want to execute the EA.

Activity ID: 7

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 2.1 Activity 4

Narrative: Create internships and place students

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 10/07/2011

Actual End:

Notes: No Notes Recorded for this Activity.

Activity ID: 8

Status: Ongoing

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Activity Type: Activity

Project Goal: Strategy 3.1 Activity 1

Narrative: Build online/hybrid stackable short-term certs & assoc degree programs that lead to career pathways

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 10/01/2011

Actual End:

Notes: No Notes Recorded for this Activity.

Activity ID: 9

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 4.1 Activity 1

Narrative: Develop hybrid and online training courses

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 10/01/2011

Actual End:

Notes: No Notes Recorded for this Activity.

Activity ID: 10

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 4.1 Activity 2

Narrative: Use OER resources where available

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 10/01/2011

Actual End:

Notes: No Notes Recorded for this Activity.

Activity ID: 11

Status: Ongoing

Activity Type: Activity

Project Goal: Strategy 4.2 Activity 1

Narrative: Develop and deploy mobile labs for hands-on training

Expected Start: 10/01/2011

Expected End: 09/30/2014

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Activity.

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Deliverable ID: 1

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.1 Deliverable 1

Narrative: Revised DE programs

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 10/07/2011

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 2

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.1 Deliverable 2

Narrative: Contextualized curriculum

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 3

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.1 Deliverable 3

Narrative: Accelerated curriculum

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 4

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.1 Deliverable 4

Narrative: modularized curriculum

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 01/01/2012

Actual End:

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 5

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.1 Deliverable 5

Narrative: Alternative assessments

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 6

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.1 Deliverable 6

Narrative: students complete or test out of DE

Expected Start: 10/01/2012

Expected End: 09/30/2014

Actual Start: 10/01/2011

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 7

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.2 Deliverable 1

Narrative: Intro algebra pilot tested at CCD

Expected Start: 10/01/2011

Expected End: 06/30/2012

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 8

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 1.2 Deliverable 2

Narrative: pilot test results are evaluated

Expected Start: 10/01/2011

Expected End: 06/30/2012

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Actual Start: 08/01/2012

Actual End:

Notes: 06/06/2012: The first course using NROC OER ran Spring 2012. Results have not yet come in.

Deliverable ID: 9

Status: Not Yet Started

Deliverable Type: Deliverable

Project Goal: Strategy 2.1 Deliverable 1

Narrative: CDLE develops processes with workforce centers. Students receive guidance from Career Coach.

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start:

Actual End:

Notes: 06/06/2012: While coaches are working with students. There is no formal process developed with CDLE. Workforce centers have not submitted expenditure authorizations to CDLE and aren't expected to until September 2012. This has slowed work in this area.

Deliverable ID: 10

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 2.1 Deliverable 2

Narrative: Implementation of revised student success courses

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 10/01/2011

Actual End:

Notes: 06/06/2012: several colleges are running AAA courses in conjunction with DE offerings. As data are available we will use it to make decisions about course implementation to scale.

Deliverable ID: 11

Status: Not Yet Started

Deliverable Type: Deliverable

Project Goal: Strategy 2.1 Deliverable 3

Narrative: Statewide Energy Career website is launched

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start:

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 12

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Status: Not Yet Started

Deliverable Type: Deliverable

Project Goal: Strategy 2.1 Deliverable 4

Narrative: COETC students persist at higher rate than cohort

Expected Start: 10/01/2012

Expected End: 09/30/2013

Actual Start:

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 13

Status: Not Yet Started

Deliverable Type: Deliverable

Project Goal: Strategy 2.1 Deliverable 5

Narrative: COETC students graduate at faster rate than cohort

Expected Start: 10/01/2013

Expected End: 09/30/2014

Actual Start:

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 14

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 3.1 Deliverable 1

Narrative: Energy program content advised by employers and content experts

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 10/01/2011

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 15

Status: Not Yet Started

Deliverable Type: Deliverable

Project Goal: Strategy 3.1 Deliverable 2

Narrative: Referral system in place between WF Centers and colleges

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start:

Actual End:

Notes: 06/06/2012: No contract with CDLE during Q1 2012.

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Deliverable ID: 16

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 3.1 Deliverable 3

Narrative: Job + internship placements

Expected Start: 10/01/2012

Expected End: 09/30/2013

Actual Start: 10/01/2011

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 17

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 3.1 Deliverable 4

Narrative: Continued placement and feedback from employers

Expected Start: 10/01/2013

Expected End: 09/30/2014

Actual Start: 10/01/2011

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 18

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 4.1 Deliverable 1

Narrative: Energy courses designed/developed

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 10/01/2011

Actual End:

Notes: 06/06/2012: Content is developed. We are in the process of getting that content in online and hybrid formats.

Deliverable ID: 19

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 4.1 Deliverable 2

Narrative: OER content integrated into courses

Expected Start: 10/01/2011

Expected End: 09/30/2012

Actual Start: 10/07/2011

Actual End:

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Notes: 06/06/2012: Where available.

Deliverable ID: 20

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 4.1 Deliverable 3

Narrative: Students are enrolled in energy programs

Expected Start: 10/01/2012

Expected End: 09/30/2013

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 21

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 4.1 Deliverable 4

Narrative: Students graduate from energy programs

Expected Start: 10/01/2013

Expected End: 09/30/2014

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 22

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 4.1 Deliverable 5

Narrative: Colleges capacity for online delivery is strengthened

Expected Start: 10/01/2013

Expected End: 09/30/2014

Actual Start: 01/01/2012

Actual End:

Notes: No Notes Recorded for this Deliverable

Deliverable ID: 23

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: Strategy 4.2 Deliverable 1

Narrative: Mobile Lab equipment ordered, labs built and ready

Expected Start: 10/01/2011

Expected End: 09/30/2012

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Actual Start: 03/31/2012

Actual End:

Notes: 06/06/2012: Equipment approval happened in March 2012 pushing back the speed on this deliverable.

Deliverable ID: 24

Status: Not Yet Started

Deliverable Type: Deliverable

Project Goal: Strategy 4.2 Deliverable 2

Narrative: Mobile Labs are serving students statewide

Expected Start: 10/01/2012

Expected End: 09/30/2013

Actual Start:

Actual End:

Notes: 06/06/2012: delay in equipment approval delayed ordering and building of these labs.

Deliverable ID: 25

Status: Not Yet Started

Deliverable Type: Deliverable

Project Goal: Strategy 4.2 Deliverable 3

Narrative: Colleges capacity to deliver hands-on training at a distance is strengthened

Expected Start: 10/01/2013

Expected End: 09/30/2014

Actual Start:

Actual End:

Notes: 06/06/2012: Until courses are online and hybrid this activity will remain not yet started.

E. Status of Progress and Implementation Measures

Strategy: Redesign developmental education. Develop alternative assessments and targeted remediation modules.

Progress Measure 1 for Strategy 1: Time to completion for students in DE (based on levels of remedial need). 2,400 students will be served by new dev. Ed. Curriculum

Progress to Date: 20%

Grantee Self Assessment: On Track

Qualitative Description: All colleges are participating in the DETF and working to change policy surrounding this redesign. Each college is piloting some redesign efforts but scale will be the ultimate goal.

Progress Measure 2 for Strategy 1: Number of students who complete their required developmental sequence or alternative assessments & curriculum successfully: Yr 1 65% will demonstrate basic skill competency; yr 2 70%; yr 3 75% (1800).

Progress to Date: 0%

Grantee Self Assessment: On Track

Qualitative Description: Our data on this measure won't make sense until after we completely implement the DE redesign - recommendations go to our board Feb 13 with complete roll out through 14.

Progress Measure 3 for Strategy 1: Students who complete gatekeeper college-level English and math. 61% overall CCCS remedial pass rate

Progress to Date: 0%

Grantee Self Assessment: On Track

Qualitative Description: Again, until after DETF implementation these measures won't make sense.

Implementation Measure 1 for Strategy 1: Fifteen developmental programs redesigned.

Progress to Date: 10%

Grantee Self Assessment: On Track

Qualitative Description: Each college has some project ongoing that fits this measure. Once policy work is complete in Feb 2013 we will be able to move faster on this strategy. It depends on how we count "redesigned programs" we have pieces of these at 15 schools in 30 programs (eng/rea and math) but they will be completely redesigned w/o the old strategies at 13 colleges by fall 14.

Implementation Measure 2 for Strategy 1: Number of students enrolled in redesigned developmental courses. 2400 students served by DE curriculum; 4000 career services; 2000 served by career coaches

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Progress to Date: 15%

Grantee Self Assessment: On Track

Qualitative Description: Until DETF work is complete this outcome will lag.

Strategy: Pilot the use of OER developmental math courses

Progress Measure 1 for Strategy 2: Number and percentage of students who complete OER developmental math courses. 61% overall CCCS remedial pass rate including in OER courses.

Progress to Date: 30%

Grantee Self Assessment: On Track

Qualitative Description: Spring 12 NROC course was successful. CCD ran 3 sections of NROC online summer 12 and 121 students in online NROC math in fall 12

Progress Measure 2 for Strategy 2: Time to completion in OER developmental math courses compared to standard developmental math courses.

Progress to Date: 10%

Grantee Self Assessment: On Track

Qualitative Description: CCD liked the NROC pilot they ran in Spring 12. They are working to train more faculty on the use of NROC as a tool for courses. With more student data we'll be able to make more comparisons about this OER tool.

Implementation Measure 1 for Strategy 2: Faculty trained to effectively teach these courses

Progress to Date: 5%

Grantee Self Assessment: On Track

Qualitative Description: training is happening for 7 more faculty people in NROC. This initiative is only at CCD. I'm struggling with a % on progress to date because there isn't a number tied to the outcome.

Implementation Measure 2 for Strategy 2: One college implementing this course format

Progress to Date: 100%

Grantee Self Assessment: On Track

Qualitative Description: CCD is implementing this course format

Strategy: Personalized guidance via career coaches, intrusive advising, early warning systems, student success courses

Progress Measure 1 for Strategy 3: Number and percentage of students who enroll in consecutive semesters. 2106 students served in Energy

Progress to Date: 5%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Progress Measure 2 for Strategy 3: Number of students who complete 9 credits in a program of study

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

(concentrators). 549 total number of students who earn a degree during the period of performance. 2500 students use services

Progress to Date: 5%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Progress Measure 3 for Strategy 3: Number and percentage of students using these services; type of services provided. 2500 students use services provided by CLDE.

Progress to Date: 1%

Grantee Self Assessment: Behind Schedule

Qualitative Description: CDLE got WF to sign EA's this quarter. We are hopeful this will encourage data sharing and tracking more easily between agencies. There are a number of WF centers w/o an EA - this is going to continue to make hitting CDLE service numbers challenging.

Progress Measure 4 for Strategy 3: Number of certificates and degrees completed annually. 1579 certificates or degrees earned over the life of the project.

Progress to Date: 5%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Progress Measure 5 for Strategy 3: Student satisfaction with these services - more than 50% students reporting satisfied or extremely satisfied with service

Progress to Date: 5%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Implementation Measure 1 for Strategy 3: 15 career coaches hired

Progress to Date: 93%

Grantee Self Assessment: On Track

Qualitative Description: 14 of 15 hired (all have actually been hired at some point but we are starting to see turnover in these positions).

Implementation Measure 2 for Strategy 3: Implementation of early warnings systems (via LMS for online programs, Career Coach monitoring)

Progress to Date: 5%

Grantee Self Assessment: On Track

Qualitative Description: Career coaches are using intrusive advising and a variety of strategies to work with and monitor student progress. Again % progress on this measure is difficult to estimate because there is no outcome value associated with it.

Strategy: Build online and hybrid flexible, stackable short-term certificates and associate degree programs that lead to employment/advancement in Energy careers.

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Progress Measure 1 for Strategy 4: Job placement - 300 TAA students placed in energy positions

Progress to Date: 1%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Progress Measure 2 for Strategy 4: Wages of students after placement - target wages \$23/hour

Progress to Date: 0%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design. We are hopeful that EA's and data agreements with CDLE will net more comprehensive data this year in this area than colleges are able to collect independently.

Progress Measure 3 for Strategy 4: Number of students enrolled in Energy programs. 2106 students served in energy programs.

Progress to Date: 0%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Implementation Measure 1 for Strategy 4: 1500 Career Readiness Certification tests administered and completed through workforce centers

Progress to Date: 0%

Grantee Self Assessment: Behind Schedule

Qualitative Description: I'm not entirely certain this will still happen with the workforce centers. Once the EA's come in to CDLE in September I will have a better idea of what they are willing to contribute.

Implementation Measure 2 for Strategy 4: Role of Industry in creation of energy courses

Progress to Date: 80%

Grantee Self Assessment: Ahead of Schedule

Qualitative Description: This is going well in several colleges. We do have two programs that lost key faculty this term. However their curricula is still informed by the industry partnerships they have in place.

Implementation Measure 3 for Strategy 4: 1000 internship and work placement agreements created and students placed.

Progress to Date: 0%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Strategy: Develop hybrid and online training courses and use OER resources where available; and mobile labs for hands-on training

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

Progress Measure 1 for Strategy 5: 2106 students enrolled in online, hybrid, and mobile lab programs

Progress to Date: 0%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Progress Measure 2 for Strategy 5: 565 students who master technology taught in mobile labs

Progress to Date: 0%

Grantee Self Assessment: On Track

Qualitative Description: Year one in energy was focused on course development/design

Implementation Measure 1 for Strategy 5: Seven online and hybrid programs developed with and without OER resources

Progress to Date: 5%

Grantee Self Assessment: On Track

Qualitative Description: Courses in programs are going to be online and hybrid. Academic courses (i.e. intro to business) that may be required for program completion at the AA or AAS level may not be available online/hybrid. Courses at each college are being developed with varying roll-out schedules for the upcoming year. In one energy program where key faculty have been lost that college is behind schedule. All others are on track.

Implementation Measure 2 for Strategy 5: Three mobile lab programs

Progress to Date: 30%

Grantee Self Assessment: Behind Schedule

Qualitative Description: Only behind because we didn't order equipment until March. The mobile lab project is moving along very well and colleges have started to collaborate for summer delivery schedules.

F. Key Issues and Technical Assistance Needs

Title	Description
OER	Where faculty are developing items in OER, do they need to make test keys available in OPEN format? There is a concern that students will search out keys and skip learning to earn credit.
Comparative cohorts	we only have 3 comparative energy sets for f12. One suggestion to compare with other schools - possibly in other states - some difficulties with a comparison in this way a few to mention: the likeness of curriculum, the preparedness and entrance requirements for students. This is not a perfect solution what are you recommending? A number of our colleges are launching in S13 so we'll start that as a cohort date assuming the pilot numbers can count to the total.
Incumbent worker reporting	incumbent workers are another trouble spot for finding a valid comparison. We can try to use courses previously offered within the 5 year period but I am worried about having quantitative data here. If in the absence of quantitative data we could try to do a qualitative comparison. We could attempt to conduct interviews with employers. Would this be acceptable?

G. Best Practices, Promising New Strategies and Success Stories

Best Practices and Promising New Strategies

1 Open resource

Students appreciate the no cost option of working with NROC instead of paying \$100+ for a math textbook at CCD

Success Stories

1 None to report this quarter.

No success stories to report for this quarter.

Recipient: Community College Of Denver

Grant Number: TC-22506-11-60-A-8

Quarter Ending: Sept 30, 2013

H. Additional Outcome Information

No additional information available.