

Recipient: Front Range Community College

Grant Number: TC-24976-13-60-A-8

Quarter Ending: 12/31/2014

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

Project Name:

Colorado Helps Advanced Manufacturing Program

Grant Number:

TC-24976-13-60-A-8

Award Year:

2013

Report Quarter Ending:

12/31/2014

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02/17/2015

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A. Quarterly Summary for Grant Activities

All programs worked this quarter on renovations, course development and enrollment. Work with employers and Workforce Center partners was priority in all programs. Site visits: Lockheed Martin, ARC, Krage Mfg. and many others. Highlights: FRCC Immerse2Learn, on-line machining CNC emulation pkg. installed on all computers. NIMS instructor credentialing process started for SP15. Two Acer manual lathes failed during October they will be replaced by South Bend. Vendor provided 90% credit. AIMS: Outreach coordinator building new internship agreements. Attended Lovelands Accelerate Colorado: Advancing Colorado's Innovation Ecosystem. MSU: Two new certificates were approved for fall 2015 semester. Represented CHAMP and ETS at MSU Denver Fall 2014 Open House. Hosted first MSU CHAMP-Industry Advisory Board meeting in December. CCD: Significant outreach to industry, business and Chamber partners. PPCC: 93% grant equipment received and operational; all instructors trained. Numerous in house projects: power and air for equipment, most efficient machine shop configuration. Machine shop now meets NIMS Certification criteria (placards and safety equipment). RRCC: Swiss Turn and QC course outlines submitted for CCNS approval. Secured WIA funding status for AAS degree. PCC: 1st completers Fast Track Welding, conducted roundtable of students to see what went well, what needed improvement, Prod Tech proposed to industry partners EGTC: ran first cohort of the manufacturing

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technology program. The Credit for Prior Learning Committee submitted a new state community college system PLA Credit Policy and System procedures to the State Board for Community Colleges and Occupational Education for review in February. 1278 participants combined total in the technical math for industry and the employability skills MOOCs.

B. Status Update on Leveraged Resources

Provide an update on the organizations that contributed the resources:

FRCC: \$15,000 Xcel Energy non-credit scholarships. Qualified for Grainger scholarship 2015. \$1,582 Inspection devices, misc tooling. Granite inspection table from FRCC Sci dept for QA cert. LCC: Huddleston-Butler Memorial Trust donated Iron Worker Mach and Guided Bend Test Mach. Dragon Manuf donated three loads of steel and aluminum for welding labs. CCD: Davis, Mfg., Codi Mfg., Donkey-Quality Corp., AME, Inc. and Mountainside Medical = materials or resources. SMEs from US Mint and Davis, Mfg. helping in MAC & MTE course development. RRCC: Barber Nichols touch screen TV; Geomet-machine supplies. PCC: O'Neal Manufacturing 1/3 yd dumpster of steel.

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

LCC: Huddleston-Butler machines placed in renovated lab. The steel and aluminum will be used in spring 2015 welding classes. RRCC: The touch screen is used in the computer lab for instruction for all related and CNC coursework; machine supplies that support the Quality Control Level 1 certificate coursework. PCC: O'Neal Mfg steel is used by welding students for welding/cutting. PCC delivers a like amount of scrap after using it for student projects.

Comments:

AIMS: Working with several partners to organize student tours. CCD: Completing orders and taking delivery of \$1,823,522.00 in equipment for CCD Advanced Manufacturing Center. PPCC: On track for March 1 spenddown of equipment budget. All instructors trained on Immerse to Learn and all new equipment. Facilities renovation on budget but lagging a couple months due to engineering and code compliance will meet DOL schedule. RRCC: has great support from area industry. PCC: The agreement with O'Neal Mfg allows PCC to utilize the steel for student projects and O'Neal to get the scrap price after use.

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.

FRCC: Moyer Machine, Woodward. 13 companies at Manuf Day. LCC: Semco. Air Gas. AIMS: Leprino Foods and Vestas. ARC Manufacturing MSU: B&B. CCD Twelve current active firms. PPCC: JPM ,Qualtek RRCC: The Advisory Committee PCC: Krage mfg, EVRAZ, QualTech

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

FRCC:MfgDay StVrain Mfg,US Mint,PushInd,Biomet,IntrexAerospace,SpecialtyProducts,Pre ciseCase, WalkerMfg,AquaHotProducts,Ronin Motorworks,Tinkermill,MountainsideMedical,Interns opps AIMSAdvisory MSUCHAMP-IAB.CCDAdvisory mtgs,donated materials,expertise.PPCCDiscussing empl and internshipsJPM Manuf forum plans,speakrs.RRCCAccuPrecision internships Geomet suppliesTechniques,IngramMachining staff time,curricula.PCC grad,Krage empl student tourTarget,QualTech inclass intros to wrkplce reqs, safety.

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

FRCC: Ask Employers:soft skills need to employ our grads? A: incorp skills in real shop activities. MSUCHAMP-IAB Profs provided profess/pers contacts. PPCC:Slow Budget reallocation approval delayed goal of spring open.RRCC:Shops busy,hard for bus. to find time CHAMP. PCC:Indus reluctant to commit time. Offer shrt trm teams for ideas,input. Helped.Industry needs, moving target. Ask for workers, delay hiring.

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

LCC: Talk: Oliver Manuf, re becoming a partner.No commitment yet. AIMS Working on Lucan Tech,PFS Oil, AE Associates.MSU CHAMP-IAB: Tim Adams,Andy Lee & Audrey Seiler(Protogenic),Susan Cirock(Arrow Sheet Metal),Bob Geoffrey(Davis Manufacturing),Joseph Fields(Consultant),JasonLaGrange(Cart Works Company),Pete Lindstrom (Image West Apparel,Inc),Ray Luscombe(B & B Machining)CCD:New BNSF,US Mint-Denver,Codi

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Mfg,Ice-o-Matic,rk mechanical,RTD FT,Cutting Edge Steel.

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

Did you acquire any additional employer partners during this quarter?

Yes

D. Timeline for Grant Activities and Deliverables

General Comments:

FRCC First noncred class with adv mach tools beg Oct: Specialized/Multi-Axis Machining/5-Axis milling. Provided 6 incumb wrkrs training on Swiss turning center, C-axis lathe, 5-axis mill. Had table top at Mini Maker Faire. NIMS workshop to intro industry skills certs to instr. Faculty Immerse2Learn training. Mastercam classes offrd. LCC Finalized crse development, started renovation. AIMS: Program wbsite has industry (logos). New alumni and feat. student pages. NoCO Manuf Partnership (tours, meetings and Maker fair). Equipment (80%) will arr in Jan. 36 of 49 courses modified to OER. MSU: Bidding process for rest of CHAMP equip done POs awarded. EDM fully online, training was completed. CMM installed and training completed. CCD: met key staff at 3 of 4 Denver Workforce Centers, asking identify and recommend TAA-eligible to programs. Focusing on finding and engaging veterans. PPCC: Strategy sessions with CPL Specialist & Data Analyst to advance grant goals. Started facilities renovation. Joint PPCC/PCC training on I2L virtual machining environment. Several orientations for students, advisors and staff on CHAMP program opportunities. Strategy planning with Military & Veteran Programs. Building ties with Colorado Springs Manufacturing Alliance. RRCC: Submitted Swiss Turn, QC course outlines to CCNS. Hired adjunct faculty for spring semester; renovation, installation, training, supplies purchases for new equip; secured WIA funding status for AAS degree; supported delivery of MOOCs; attended regional industry networking events; networked with area companies to promote spring semester evening certificate: Quality Control Level 1. PCC: First grads for Wel fast track. Hybr WEL courses compl for delivery, work on Mach fast track, Met with ind partners about Prod. Tech. cert, installed all new CNC equip, got feedback from students for course corrections, students toured Krage Mfg. EGTC has conducted class with the first cohort of students as well as employer visits.

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How many programs are you planning to offer?

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

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F. Key Issues and Technical Assistance Needs

Title	Description
renovation delays	CCD renovation delays caused college to have limited access to MAC equipment for the Multi-Axis, 5-Axis, Wire EDM machines and related course development. PPCC: challenge with engineering to meet code review on our facilities renovation project in Electronics Lab. Delayed DOL approval impacted ability to conclude the project more quickly and now pushing to get completed. Estimate this process has amounted to about a 3 to 4 month delay cancelling our previously planned use of this lab for sp15.

G. Best Practices, Promising New Strategies and Success Stories

Best Practices and Promising New Strategies

1 Fast track and block schedules

PCC: Going with non-traditional schedules or block schedules for fast track courses. Now fast tracking the manual machining certificate. Instructors are starting to record some lectures for D2L and are using the pen-cast technology to demonstrate math topics.

2 College communication

PPCC: Recruiting goals, our approach has been to educate and empower the numerous faculty and career advisors at the school to be our ambassadors and to help students connect to CHAMP programs. Increase faculty and student awareness of CHAMP programs and employment opportunities: tours of shop facilities, program presentations for faculty and student services staff during Professional Development Week

3 Hybrid instruction

LCC: For the coming semester in which we will be implementing newly designed hybrid welding courses we will be piloting a team teaching model. We have paired our welding instructor with an instructor who has more experience with D2L and instructional technology. This will aid in the transition to hybrid courses for both the instructor and our students

4 Career fair

FRCC Machining Career Fair held in November, brought in over 25 hiring companies and over 45 students and community job seekers. The program continues to use job fairs to network with new and old companies, students of other colleges (MSU & CCD sent students), community members and prospective students.

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5 Navigator relationships

FRCC Navigator working with Admissions and Records to streamline the Non-credit application and registration process for both the school and the students. Several new forms and processed have been created and modified to address the need for demographic information. Navigator has met with several Workforce Centers

Success Stories

1 FRCC Marketing

ATC has worked with FRCC Marketing staff to create new outreach materials including flyers geared specifically toward incumbent workers and website updates. This group is also collaborating with a writer and videographer to create an informative video that will be used to educate the community about machining. Social media continues to be developed and expanded as a platform for outreach opportunities. Facebook is used to inform students of job opportunities, events, community resources and man

H. Additional Outcome Information

n/a