

Recipient: Lorain County Community College

Grant Number: TC-26435-14-60-A-39

Quarter Ending: 03/31/2018

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

Project Name:

Ohio Technical Skills Innovation Network (Ohio TechNet)

Grant Number:

TC-26435-14-60-A-39

Award Year:

2014

Report Quarter Ending:

03/31/2018

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A. Quarterly Summary for Grant Activities

Ohio TechNet (OTN) is an Advanced Manufacturing consortium with 5 programs: Welding, CNC/Machining, Industrial Maintenance, Digital Fabrication/Industrial Automation, Occupational Safety. Schools include Columbus State (CSCC), Cincinnati State (CSTCC), Cuyahoga (CCC), Eastern Gateway (EGCC), Lakeland (LCC), Lorain (LCCC), Owens (OCC), Rhodes (RSC), Sinclair (SCC), Stark (SSC), Zane (ZSC). As a sustainability initiative, OTN is expanding. Three additional Ohio community colleges have joined OTN and we anticipate additional schools coming on board to help address Ohio manufacturers' skills gap issues. OTN's employer engagement approach was recognized by SkillsCommons as a top 10 TAACCCT Innovation. OTN Project Manager attended the SkillsCommons Proven Practices meeting at Cal State and was interviewed for a TAACCCT video. CCC's unique welding model was also recognized as a top innovation by SkillsCommons. OTN is leading 3 initiatives for SkillsCommons: Manufacturing Editorial Board, creation of a customized SkillsCommons portal for The Ohio Manufacturers' Association (OMA) website, and the Women's Outreach IMPACTcommunity. Upload of OTN deliverables to SkillsCommons began in Q14. OTN videos were produced and finalized: <https://bit.ly/2IujxXE> and <https://bit.ly/2rFC7T2>. OTN colleges assisted OMA in establishing sector partnerships. RSC instructors were trained to deliver a new Mitsubishi Electric course and credential: GOT 2000 and GTWorks2. Grant funds also purchased the necessary equipment to support the delivery of the credentialed course. Work-based learning models continue to expand. TRAIN OH, an LCCC earn-and-learn program launched under

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this grant, was key to LCCC's approval to offer a bachelor of applied science degree in microelectronic manufacturing: <https://bit.ly/2KaCL1N>. LCCC is helping LCC replicate the TRAIN OH model. CSCC and RSC piloted successful programs with the reentry population. Demand for welders remains high with CCC experiencing a 77% increase in enrollment necessitating running classes 7 days a week. OTN resolved monitoring findings in adherence to its Corrective Action Plan. OTN improved reporting procedures to allow for reporting further education (B.7) outcome with exception applied and held data reporting trainings. Outcomes are closer to targets, e.g. OTN has attained 125% of B.1. Actual reimbursement for OTN grant expenses at Mar. 31 was 89.6%. With two quarters remaining, we are on target with spending.

B. Status Update on Leveraged Resources

Provide an update on the organizations that contributed the resources:

CSCC: Integrated System Technology Lab (\$11,672.10). LCC Welding Advisory Committee members: committee participation (\$825); LCC employer panel participation (\$275); LCC Foundation: faculty challenge grant (\$1,166). SCC: in-kind salary (\$2,106.82); American Welding Society (AWS): student scholarship (\$1,000). The following unclaimed indirect costs were leveraged by OTN partner schools: CSTCC: \$12,947.33; CCC: \$25,721.52; LCC: \$30,523.74; LCCC: \$44,325.88; OCC: \$15,260.53; RSC: \$17,770.36; SCC: \$13,556.58; SSC: \$12,247.37; ZSC: \$4,351.52.

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

CSCC's Integrated System Technology Lab was used in instruction/training. LCC Welding Advisory Committee members supported the Industrial Welding program. Select LCC employer partners participated in employer panels to assist students in interview preparation and to connect students to employment opportunities. The faculty challenge grant was used to introduce non-destructive testing to welding courses at LCC. In-kind salary of Co-Directors at Sinclair was used to advance project goals. AWS student scholarship was used toward student tuition and fees. Unclaimed indirect costs supported administrative services vital to grant deliverable attainment.

Comments:

N/A

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

No

C. Status Update on Employer(s) Involvement

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

Required employers supported OTN in at least one of the following ways: participated in

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program/curricular design (CD), hosted paid work experiences (PW), shared data on openings, skills and credentials (SD), provided input on career pathways (CP), gave consideration to program completers (CPC), hired program completers (HPC), participated on advisory panels (AP), hosted site tours (T), and/or participated in the Ohio Mfg Workforce Strategy (WS). Roles are outlined below.

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

Advanced Design Solutions: CPC. Air Tech: PW. AJ Rose: SD,CPC. Bettcher: SD. Bob Evans: CD,SD,AP. Dana Auto: CD,PW,CP,SD,CP,CPC,HPC,AP. Dannon: SD. Diamond Products: SD,AP. Dayton Lamina: SD. Gasdorf: SD,T. General Plug: SD. Jerl Machine: CD. Kern-Liebers: CD. Koneta: SD. Kerry: CP,T,WS. Lincoln Electric: CD,SD,CP,CPC,HPC,AP,T. P&G: CD,SD,CP,WS. Patriot Stainless: SD,CPC. Pioneer Pipe: SD,CPC. Quanex: CP,T,WS. Rudolph: CD,SD,CP,AP. Safety Ctrl's Tech: SD,CP,AP. SGS Tool: AP,T. US Bridge: SD,CPC.

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

RSC facilitated conversation among employer partners during workforce sector strategy meetings, where potential competitors met to solve common workforce problems. CSTCC experienced heightened employer interest as their Business Developer highlighted cooperative education and apprenticeship/partnership possibilities.

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

In Q14, 42 new employer partners were engaged; 473 employer partners have been engaged overall. Commitments of new and existing partners include: participation in program/curricular design; hosting of paid work experiences; sharing of data on openings, skills and credentials; providing input on career pathways; giving consideration to/hiring program completers; participating in advisory panels; hosting of site tours; participation in Ohio Mfg Workforce Strategy.

Comments:

Most OTN colleges continue to engage with employer partners to train incumbent workers and offer work-based learning opportunities for students. Examples: F&P America referred/enrolled a new participant in SCC's SkillsTrac Industrial Maintenance program; Millat Industries agreed to participate in a new incumbent learner program with SCC's CAM department. Lincoln Electric continues to act as an employer champion: hosted an open house for their state-of-the-art Lincoln Electric Training Center; collaborated with LCC to host David Landon, past American Welding Society President and Welding Engineer at Vermeer Corp, to speak on the future of welding education and job interview preparation.

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:

OTN has realized traction in apprenticeship delivery, with RSC leading the charge. RSC met with SSC representatives to discuss the process of becoming a registered sponsor. LCC is creating a fast-track for veterans interested in apprenticeships. CSTCC is discussing apprenticeships with employers. An RSC employer partner struggling to find employees with the required skills is expanding the number of apprentices hired for 2018 cohort by an additional 23 apprentices to a total cohort of 45 apprentices. As the result of an ongoing collaboration and partnership, RSC also added three new apprenticeable trades to the DOL registered standard through ApprenticeOhio: Industrial Manufacturing Technician, Elect.-Mech-Technician, and Electrician-Maintenance. The related instruction was built with existing credit coursework along with newly created Food Technology coursework. Two of the occupations are short-term apprenticeships consisting of 2,000 on-the-job training hours. The Industrial Manufacturing Technology occupation embeds the Manufacturing Skills Standards Council (MSSC) Certified Production Technician (CPT) credential. Four apprentices began their related instruction at RSC in the Spring 2018 semester. Further, RSC is adding a new occupation to the apprenticeship DOL standard to incorporate a 3-year related instruction plan that adds the Miami University 2+2 Machine Design curriculum. RSC additionally piloted a non-credit offering of Industrial Motor Drive curriculum to meet the needs of Electrician apprentices. The ToolingU online curriculum was vetted with the industry partner and met the learning objectives of the coursework. Labs were utilized to verify competency of the course objectives. Based on the success of this pilot, RSC will be offering a CNC course to 16 apprentices this summer utilizing ToolingU to supplement apprenticeship related instruction.

How many programs are you planning to offer?

5

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

5

Activity ID: 1

Status: Ongoing

Activity Type: Activity

Project Goal: 1.1 General Program Management

Narrative: Align activities with existing sector initiatives to share best practices

Expected Start: 10/01/2014

Expected End: 09/30/2018

Actual Start: 10/01/2014

Actual End:

Notes: 03/20/2015: Activity 1.1; Align activities with existing sector initiatives to share best practices

05/07/2015: Started recruitment for Project Manager and Program Developer; contracted with Program Evaluator; hired Resource Development Specialist.

08/14/2015: Work Teams were launched to support program management. Project management team is hired and oriented to Ohio TechNet / TAACCCT including OTN project manager, program developer, senior research project manager, and resource development specialist.

11/12/2015: Consortium infrastructure organized: data sharing agreements, systems for secure data transmittal, weekly calls, regular webinars, site visits. OTN partners align employer engagement and career pathway development with the Ohio Manuf. Careers Council.

02/08/2016: OTN collaborates with state and national leaders and initiatives by supporting the launch of Ohio Mfg Careers Council (OMCC), led by industry with the support of the Ohio Department of Higher Education (ODHE), LIFT and OTN.

05/13/2016: OTN supported Ohio Manufacturing Careers Council, providing coordination assistance for the Education/Skills Work group. ODJFS, ODHE, and ODVS provided updates and feedback at Q6 in-person OTN convening.

08/15/2016: LCCC president presented to OTN presidents. Facilitation of OMCC included assisting with Image Campaign RFP and developing an employer survey. Collaborated with State of Ohio to hire a consultant to finalize the PLA Portfolio Rubric for the State.

11/14/2016: Manufacturing Day planning. RSC working with local MEP to develop programs. Manufacturing USA, JobsOhio and State of Ohio collaboration advances.

02/14/2017: Colleagues from state agencies and non-OTN schools join OTN's weekly consortium calls. We continue to distribute a weekly newsletter to more than 100 people statewide and in-person meetings occur quarterly. www.ohiotech.net is also a resource.

05/12/2017: OTN continues to partner with state of Ohio to implement strategies led by the Apprenticeship Office, OMA, and OMCC.

08/14/2017: OTN collaborates with OMA to launch regional employer meetings to develop/enhance sector partnerships.

11/14/2017: OTN collaborates with the Ohio Manufacturers' Association to plan the Manufacturing Workforce Summit.

02/13/2018: OTN supported Mfg Workforce Summit. LCC plans to replicate TRAIN OH model; employer engagement meeting planned for Jan. 2018. RSC presented at College Apprenticeship Consortium Grant Meeting. Statewide OTN Sustainability Meeting took place Nov. 30.

05/15/2018: Sustainability conversations continue, as bi-weekly sustainability team meetings have been implemented. OTN continues to work with The Ohio Manufacturers' Association to promote sector partnership to resolve manufacturing workforce issues.

Activity ID: 2

Status: Ongoing

Activity Type: Activity

Project Goal: 2.1 Accelerated Remediation

Narrative: Contextualized and accelerated remediation through collaboration

Expected Start: 06/01/2015

Expected End: 09/30/2017

Actual Start: 03/02/2015

Actual End:

Notes: 03/20/2015: Activity 2.1; Collaboration with Adult Basic Education, Industry, workforce and Ohio Completion Agenda

05/07/2015: Started procurement process for PLA contractor.

08/13/2015: Select consortium members have had initial discussion with a local ABLÉ provider about developing a Bridge Class to help prepare students for Math in Welding and engaged faculty to complete enhanced math curriculum for Machinery Maintenance.

11/12/2015: Consortium members attended Competency-Based Education Conference and PLA Strategy Session with CAEL. Select consortium member has confirmed partnership with local ABLÉ and reviewed and modified curriculum.

02/08/2016: OTN is reviewing CAEL's PLA recommendations to determine a strategy to increase PLA credit obtainment statewide. CSCC developed CBE-focused curriculum. CCC is exploring virtual ideation training & software simulation training for robotics welding.

05/13/2016: OTN is working with State of Ohio to help finalize the state's PLA portfolio rubric. LCC and RSC awarded PLA credit. OTN attended TAACCCT convening and obtained additional PLA resources which will be utilized to enhance PLA in Ohio.

08/15/2016: Welding course at CSTCC now includes 6 math modules that are contextualized. CCC has also included contextualized math in welding course. ABLÉ program offered to develop remedial math programs at LCC.

11/14/2016: LCCC, LCC, CCC, ZSC, CSTCC utilizing various strategies for tech math and remediation including partnering with Jobs for the Future and ABLÉ, utilizing Course Skills Mastery and Online Math Adaptive. PLA work with State of Ohio is progressing.

02/14/2017: LCCC partners with ABLÉ to provide contextualized remediation for manufacturing pathways. CCC's Fast Track Welding Bootcamp and the first credit based short term certificate (Introductory Welding) have been approved for the Adult Diploma Program.

05/12/2017: ABLÉ partners support colleges. Math contextualization continues. LCCC RAMP programs now include contextualized Reading and Math, also available through ABLÉ. Noncredit Ind. Maintenance course created at RSC, this will transfer to credit via PLA.

08/14/2017: RSC conducted a Welding Bootcamp in partnership with ODJFS. QuickStart to College course was offered for free at ZSC to anyone with an interest in attending college.

11/14/2017: RSC: Basic Pathways course for women. LCCC: CORE orientation (GED prep with a MFG focus). CCC: enhanced delivery of Applied Math. ZSC streamlined developmental courses. CSTCC: tutoring allowed 6 students to test out of the co-requisite math course.

02/13/2018: OTN colleges continue to partner with ASPIRE (formerly ABLÉ/GED). RSC created contextualized math seminar for maintenance technicians. CCC works with Adult Diploma Program and local GED prep nonprofit to recruit students.

05/15/2018: ZSC is offering industrial electricity and PLC courses in Summer 2018 as a 6-week boot-camp. RSC considers segmenting a technical math course into 3 focused courses to meet specific needs of skilled trade occupations and facilitate awarding of PLA.

Activity ID: 3

Status: Ongoing

Activity Type: Activity

Project Goal: 2.2 Enhanced Collaboration

Narrative: Collaboration among career technical, community colleges, registered apprenticeship and 4 yr univ.

Expected Start: 10/01/2015

Expected End: 09/30/2017

Actual Start: 10/02/2014

Actual End:

Notes: 08/13/2015: University System of Ohio Talent Development Network collaborated on statewide Post-Secondary Adult Career Education conference. Worked with State of Ohio Apprenticeship Council; attended conferences to gain best practice knowledge on collaboration. 11/12/2015: Affinity Groups have continued to meet, resulting in increased collaboration among partner colleges. Select consortium member collaborated with career centers to become registered apprenticeship sponsor.

02/08/2016: OTN partners created regional partnerships to capitalize on ODHE funding for manufacturing equipment, which maximizes the OTN investment.

05/13/2016: University System of Ohio Talent Development Network (USO TDN) is helping OTN enhance relationships with Ohio's career technical colleges. In Q7, OTN will present at the USO TDN, PACE and OAAACE conference which targets career technical colleges.

08/15/2016: OTN presented at a statewide career technical college conference. Articulation agreements are increasing. CSTCC has a co-enrollment agreement with Butler Tech.

School-sponsored DOL Registered Pre-Apprenticeship program at RSC is being developed.

11/14/2016: RSC: registered apprenticeship program with Omni Manufacturing; revised Dana Corp's Registered Apprenticeship Related Instruction. LCC: articulation with career tech. CSTCC: collaboration with career tech ctrs. CCC: enhanced articulation with CWRU.

02/14/2017: LCCC/CCC partner on safety programs and a Tool and Die Apprenticeship program. RSC provides technical assistance for OTN partners pursuing reg. apprenticeships. LCCC partnered with U of Akron on a pathway from a 2-year to a 4-year degree in MEMS.

05/12/2017: RSC continues to provide technical assistance to OTN colleges pursuing college sponsorship: LCCC received designation. CCC shares space, equipment and ongoing resources with CWRU.

08/14/2017: CSTCC continues partnership with Butler Tech Career Center for Welding program. LCC explores articulation with Pennsylvania College of Technology. CCC, LCCC, RSC, and SCC received Ohio Apprenticeship Grant.

11/14/2017: LCCC and CCC launched regional Advanced Manufacturing Apprenticeship Program. RSC hosted College Apprenticeship Sponsorship Meeting. CCC articulated Welding to program at Excelsior College. RSC is discussing articulation with Wright State College.

02/13/2018: RSC is sponsoring apprenticeships in areas that hadn't been previously offered: Industrial Maintenance Technician, Electrical Production Line Maintenance Mechanic. RSC is

developing apprenticeship that utilizes Miami University's 2+2 program.

05/15/2018: RSC, LCCC, CSCC provide guidance to colleges implementing work-based learning (e.g. apprenticeship, TRAIN OH, Modern Manufacturing). RSC expands apprenticeship offerings. CSTCC continues to seek innovative approaches for Earn and Learn strategies.

Activity ID: 4

Status: Ongoing

Activity Type: Activity

Project Goal: 2.3 Strengthen Employ Roles

Narrative: Strengthen employer roles as design and delivery partners

Expected Start: 07/01/2015

Expected End: 09/30/2017

Actual Start: 01/05/2015

Actual End:

Notes: 08/14/2015: Team 2 is researching and developing employer engagement tools. OTN is also collaborating with LIFT and OBOR to launch Ohio Manufacturing Careers Council and engaging employers in planning committees, advisory committees, work groups, focus groups.

11/12/2015: Seminar with The Manufacturing Institute was held, which discussed employer engagement strategies and the new ROI tool. Employers have been engaged on advisory panels and via the OMCC to assist in program design and implementation.

02/08/2016: OTN continues to engage employers locally and supports employer involvement in work teams of the Ohio Manufacturing Careers Council (Image/Outreach and Education/Skills).

05/13/2016: OTN schools have worked with industry partners to develop curriculum and OJT opportunities. LCC worked with Lincoln Electric to develop Workforce Needs Survey. Many OTN employers are helping guide the work of the Ohio Manufacturing Careers Council.

08/15/2016: Employers are increasingly involved in curricular design. This is particularly significant in accelerated models such as Right Skills Now and Train OH. Also, OMCC worked with employers to develop employer survey.

11/14/2016: Expanded employer engagement via Lucas County Department of Planning & Development (OCC); Alliance for Working Together (LCC). Ohio Manufacturing Careers Council meetings. Website was enhanced to include listing of employer partners.

02/14/2017: OTN is on the design and implementation team for a new workforce strategy being rolled out by the Ohio Manufacturing Association in response to the needs of their nearly 1500 members, many of which are small and medium sized manufacturers.

05/12/2017: Twenty employer partners were added this quarter. Employer partners continue to assist in curriculum development. OMA and OMCC strategies continue.

08/14/2017: Partnership with regional employer associations continues; CSTCC engages with Partners for a Competitive Workforce. OMA interfaces with regional associations to implement statewide strategy. OTN now has relationships with 354 employers.

11/14/2017: Advisory committees continue to inform program design. RSC held a Process Instrumentation Workforce Summit to engage industry partners that have similar Process Operations procedures.

02/13/2018: OTN added 44 employer partners, and now has 432 total. Incumbent worker training and other workforce services continue to be deployed. LCC's Welding advisory committee helped convert ATS welding degree to AAS.

05/15/2018: Advisory committees continue to meet and provide input on training. LCC's Industrial Welding Advisory Committee assisted in refining curriculum which will be offered in Fall 2018 and offered suggestions for Project Based Learning.

Activity ID: 5

Status: Ongoing

Activity Type: Activity

Project Goal: 2.4 Online Learning

Narrative: Integrate new & replicate successful models of online tech-enabled competency based learning.

Expected Start: 10/01/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Researched hybrid models; drafted Request for Information to gather information on potential providers and efficacy of programs; participated in nat'l conference on Competency Based Education hosted by previous TAACCCT grantees.

11/12/2015: Statewide Competency-Based Education conference attended; competency-based curriculum designed; course created using welding robot purchased with grant funds; Welding Affinity Group created an RFP to solicit online welding program resources.

02/09/2016: Partner schools have made significant progress with CBE and shared this expertise on weekly consortium calls and during affinity group meetings.

05/13/2016: OTN schools have launched programs that incorporate Competency Based Education (CBE). RSC is developing CBE curriculum in Industrial Maintenance relating to Food Technology. SCC has initiated CBE conversion for Machining.

08/15/2016: CBE Course conversion is underway, with three additional courses being piloted in the fall at SCC.

11/14/2016: Successful integration of online ToolingU platform into SCC's E-Learn system for CAM CBE courses; SCC completed conversion of all basic machining courses to CBE; began piloting final group of courses.

02/14/2017: CCC is delivering hybrid curriculum via American Welding Society and Lincoln Electric's U/LINC. Fanuc-Weld Pro software is utilized in training, saving on equipment failures, programming errors, and materials cost.

05/12/2017: LCC considers use of ULINC, which has been piloted at CCC. SCC plans to convert two additional courses into CBE format. OCC on-track to develop online/hybrid welding course.

08/14/2017: Labs for welding courses at ZSC will be delivered in competency-based model, as new training equipment was leveraged. Camera technology is explored at OCC in welding classroom.

11/14/2017: ZSC implemented online academic planner. RSC received positive feedback after delivering online geometric dimensioning and tolerance curriculum at Grob to support an apprenticeship program. CSCC visited Sinclair to discuss application of CBE model.

11/14/2017: ZSC implemented online academic planner. RSC received positive feedback after delivering online geometric dimensioning and tolerance curriculum at Grob to support an apprenticeship program. CSCC visited Sinclair to discuss application of CBE model.

02/13/2018: Utilization of online resources persists among OTN colleges to provide fast-track training. RSC developed Food Science Certificate for hybrid delivery. LCC continues to explore

implementation of online resources.

05/15/2018: RSC piloted embedment of online ToolingU modules. LCC continues to consider online resources including ULINC and the AWS online program. CSSC is documenting welding innovation that may be a replicable competency-based education model in the future.

Activity ID: 6

Status: Ongoing

Activity Type: Activity

Project Goal: 2.5 Serving Veterans

Narrative: Adopt consistent approach to serving veterans

Expected Start: 06/01/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Planned July seminar with The Manufacturing Institute focused on Get Skills to Work. LCCC organized Boots to Business workshop with SBDC, postponed due to low enrollment. Will work with veteran service agencies to revise outreach and reschedule.

11/12/2015: Partners are involved at multiple levels in honing services and strategies to accelerate the transition of veterans to manufacturing careers, working with campus groups, OhioMeansJobs, veteran services, Hire a Vet, NEOVETS, and other initiatives.

02/08/2016: Officials from the Ohio Department of Veteran Affairs will lead a veteran-focused info session for OTN project managers in Feb 2016. In Q5, ZSC and CSCC planned a Boots to Business program in partnership with local SBDCs.

05/13/2016: Ohio Dept of Veteran Services presented to OTN project managers in January. LCCC continued to work with NEOVETS, engaging employers for training. PLA credit guidelines were developed, which will allow veterans to receive credit for prior training.

08/15/2016: OTN colleges continue to prioritize veteran outreach. ZSC added a veteran's resources link to their homepage. CCC distributed an OTN program flyer to 600 veterans who are current students.

11/14/2016: CCC's subaward agreement is being increased to recognize leadership in veteran outreach. Ohio's expanded MTAGs will benefit OTN vets. OTN helped NEOVETS schedule roundtable discussions with student veterans about regional veteran services available.

02/14/2017: Veterans benchmark survey distributed to 11 OTN partners; 3 schools responded in Q9. CCC conducted outreach to 23,201 Veterans since Jan 2016. LCC participated in Veterans Session with the ODHE Chancellor and Director of Ohio Veteran's Affairs.

05/12/2017: CCC evaluates how to collaborate with CWRU for veteran initiatives to include research and exploration of technology. Colleges continue to collaborate with internal/external veteran resource groups. Veteran Benchmark Survey administration concluded.

08/14/2017: CCC ensures that veteran participants submit joint transcripts to receive credit via Military Transfer Assurance Guides (MTAGs). Other OTN schools continue outreach to veterans.

11/14/2017: OTN colleges continue veteran outreach, working with local veteran services organizations and offices. CCC worked with local partners to host a Veterans Experience Action Center. LCCC hosted a Veteran Ideation Session.

02/13/2018: Consistent outreach occurred with veteran resources external and internal to OTN colleges. LCC's Recruiter attended a Veterans Panel discussion. CCC hosted a successful veterans

event.

05/15/2018: CCC's Exec Dir. of Veteran Initiatives participated in a strategic planning session with leading veteran service agencies regarding the development of regional veterans' employment web portal. LCC working to fast track veterans into apprenticeships.

Activity ID: 7

Status: Ongoing

Activity Type: Activity

Project Goal: 2.6 Safety Education

Narrative: Expand degree options and credit-bearing education and training for safety professionals

Expected Start: 02/28/2015

Expected End: 09/30/2017

Actual Start: 02/28/2015

Actual End:

Notes: 05/07/2015: Preliminary discussion regarding scope of work for safety contractor.

08/14/2015: LCCC hosted the Assistant Secretary of Labor for OSHA and industry partners for Workers' Memorial Day. OTN contracted subject matter experts to support project management related to deliverables for the safety education and training component.

11/12/2015: Statewide Safety Industry Council was launched to help design/create the Safety Career Pathway. Representatives from OSHA, industry, workers comp, and education attended. Partners also report embedding OSHA training into technical fields of study.

02/08/2016: In conjunction with the Statewide Safety Industry Council, courses were identified for a 2-year Occupational Safety degree.

05/13/2016: LCCC evaluated subject matter experts in preparation of curriculum launch in Fall 2016, and secured personnel to develop curriculum and continues to engage Statewide Safety Industry Council.

08/15/2016: Three courses have been developed this quarter. LCCC has initiated conversations with CCC to collaborate on the Safety program to leverage its successful partnership for offering students dual enrollment with an OSHA Education Center.

11/14/2016: Strong progress has been made by leveraging the partnership with CCC, which has a highly innovative and successful partnership with Great Lakes OSHA Education Center headquartered at the University of Cincinnati.

02/14/2017: LCCC will launch courses tied to a short-term and one year certificate this summer; in partnership with CCC, LCCC expands instructor pool with the required certification and to do outreach to industry/students.

05/15/2017: Safety courses are scheduled for Summer 2017 at LCCC and CCC, recruitment has begun. Safety advisory council met. Planning is in place to embed national certification in curriculum.

08/14/2017: LCCC's ATS in Industrial Safety Technician was approved by ODHE; courses will be offered in Fall 2017.

11/14/2017: Occupational Safety training at CCC and LCCC is slotted to begin in October 2017. Participant enrollment is a concern, however.

02/13/2018: OSHA content was incorporated into CCC's Environmental Safety curriculum - approval has been sought. Safety Ctrl's Tech continues to engage with LCCC and developed curriculum for three courses for the Industrial Safety Technician/Technology degree.

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05/15/2018: Industrial Safety courses for short-term certificate, one-year technical certificate and associate degree have been developed and are scheduled to launch Fall 2018.

Activity ID: 8

Status: Ongoing

Activity Type: Activity

Project Goal: 3.1 Systems Integration

Narrative: Replicate successful models of community college/workforce systems integration

Expected Start: 01/01/2015

Expected End: 09/30/2015

Actual Start: 01/01/2015

Actual End:

Notes: 05/07/2015: Engaged local WIB as a partner and held preliminary conversations about using Ohio's state-level case management system.

08/13/2015: Met with local WIB partner to discuss data management and previewed OTN's special office in Ohio's Workforce Case Management System (OWCMS). Crosswalked data fields in the Participant Intake Form to fields in the OWCMS.

11/12/2015: Continued work with ODHE, ODJFS and local WIB to foster collaboration; connecting with local WIBs and college workforce development departments; Pathway to Employment model created through prior TAACCCT grant at Cincinnati State will be replicated.

02/08/2016: OTN continues to collaborate with workforce partners to engage and support individuals in existing advanced manufacturing initiatives, implementing models such as Right Skills Now, and developing collaborative delivery models.

05/13/2016: OTN schools continued to work closely with workforce partners to recruit participants, obtain tuition funding, support case management, encourage co-enrollment, and host events.

08/15/2016: Collaboration with local OMJs continues to strengthen; OMJs have assisted in program outreach, recruitment, and with funding tuition for OTN programs.

11/14/2016: LCC Welding training approved by Workforce Investment education and training site. Drawing on KY FAME and CSCC's successful Honda partnership, LCCC launched TRAIN OH; OhioMeansJobs center recruited a diverse participant pool for TRAIN OH.

02/14/2017: The TAACCCT Round 2 Multi State Advanced Manufacturing Consortium allowed RSC access to Immerse2Learn online materials. RSC is working with industry to leverage the use of materials. LCCC hosted OhioMeansJobs for Techno Fridays to source talent.

05/12/2017: Colleges work with OhioMeansJobs offices to conduct outreach to TAA eligible workers and other transitioning adults and to tap WIOA and CCMEP funding. CSTCC initiated conversations concerning OJT funding opportunities to incentivize employers.

08/14/2017: ODJFS shared data on TAA eligible workers in Ohio. RSC developed a DOL Registered Pre-apprenticeship program with help of the Ohio Department of Education Straight A Grant.

11/14/2017: RSC is creating a proposal to launch a Department of Labor Registered Pre-apprenticeship Boot Camp. OTN colleges continue to work with local WIBs to assist in TAA outreach and to support training costs.

02/13/2018: OTN colleges continue to work with local Jobs and Family Services and workforce development boards to recruit veterans, TAA-eligible workers, and other displaced workers. Utilization of WIOA resources continues.

05/15/2018: OTN colleges continue to engage with local workforce boards and leverage WIOA funding. RSC is looking to replicate sector partnership model for manufacturing to build training in wastewater treatment.

Activity ID: 9

Status: Ongoing

Activity Type: Activity

Project Goal: 3.2 Completion Agenda

Narrative: Align activities to Ohio's completion and student success agenda

Expected Start: 06/30/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/14/2015: Work Team 3 was launched. Its goal to expand best practices that redesign student intake, success, and placement support the alignment of activities to Ohio's completion agenda.

11/12/2015: Navigator Affinity Group launched to share best practices for student intake, success, and placement; Integration of TAACCCT activities within colleges' overall completion agenda and teams; PLA work which supports student success is advancing.

02/08/2016: OTN utilizes navigators, intrusive advising, creative financial aid programs, and unique curriculum models, such as CBE and PLA, to increase student success and completion. Several OTN project managers serve on their school's Completion Agenda team.

05/13/2016: OTN presented to chief academic officers at an Ohio Association of Community Colleges meeting which focused on Student Success. This work is key to the sustainability of the OTN initiative.

08/15/2016: Welding orientation was offered to help onboard students at CSTCC, and advising and tutoring services were delivered to improve outcomes at CSCC.

11/14/2016: SCC partners with LCCC and SSC to lead Ohio's Completion by Design (CBD) cadre. In Q8, OTN created a roundtable presentation re: intersection of CBD and TAACCCT to be presented at Oct '16 NCWE Conference.

02/14/2017: CCC hosted an Achieving the Dream meeting. Partners are implementing a robust Completion Plan with key milestones and working committees. OTN hosted roundtable at NCWE national conference on intersection of TAACCCT and completion.

05/12/2017: Completion Agenda best practices from LCCC, SCC, and SSC were shared during in-person meeting. Progression and student success with stackable ABET accreditation occurs. ZSC increased flexibility in ISET degree electives and reduced required hours.

08/14/2017: Scholarships were made available for LCCC students interested in a career in manufacturing through the College Now program. RSC develops Pre-apprenticeship in alignment with Industrial Manufacturing Technician Registered Apprenticeship program.

11/14/2017: Navigators monitor student progress toward academic goals to identify barriers and student resources. Navigator Affinity Group Meeting was held. CCC held cohort orientations that reviewed classes required to obtain stackable/latticed credentials.

02/13/2018: Navigators provide guidance and supportive services to OTN participants. CCC continued to hold cohort orientations to promote student success. Manufacturing Foundations training was offered at LCCC. RSC developed a guided pathway for CCP students.

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05/15/2018: Navigators were engaged in consortium meetings that focused on student surveying and placement strategies, and were invited to TAACCCT showcase hosted by Northwest State.

Activity ID: 10

Status: Ongoing

Activity Type: Activity

Project Goal: 3.3 Self Employment

Narrative: Expand training for entrepreneurship focus on professional/technical services for adv mfg

Expected Start: 10/01/2014

Expected End: 09/30/2017

Actual Start: 01/01/2015

Actual End:

Notes: 05/14/2015: Spring Boots to Business program scheduled with SBDC team at Lorain County Community College.

08/13/2015: LCCC serves dislocated workers through DOLETA supported self-employment training initiative; will design strategies for sharing lessons learned. OTN collaborating to plan regional entrepreneurship event for Fall focused on diverse talent.

11/12/2015: Rhodes SBDC and Columbus State considering replication of "Boots to Business" program; Sinclair maintenance training program also supports entrepreneurs; Fab Lab in development at Zane State will support entrepreneurship.

02/08/2016: ZSC completed their Fab Lab which will help entrepreneurs test ideas. CCC is creating a module-based online training for students interested in becoming small business owners. CSCC, ZSC, RSC, and LCCC are working with local SBDCs to launch programs.

05/13/2016: OTN schools continue to work with local Small Business Development Centers to develop entrepreneurship programs and talent planning sessions. CCC met with LCCC's SBDC Director to share best practices. ZSC is planning a veteran entrepreneurship event.

08/15/2016: OTN staff collaborate with Small Business Development Centers to highlight entrepreneurship training. LCCC hosted CCC for a meeting with the SBDC and worked with Ohio SBDC on a proposal to expand self-employment services for dislocated workers.

11/14/2016: LCCC and ZSC Small Business Development Centers (SBDC) collaborated in the development of a series of videos for entrepreneur veterans.

02/14/2017: LCCC's SBDC launched targeted services to displaced workers and businesses impacted by the downturn in the steel industry. RSC faculty member helped a local small business owner create a prototype for an invention using grant-funded equipment.

05/12/2017: Students interested in entrepreneurship continue to be referred to online resources and to local SBDCs. OCC had discussions on developing a course or course materials for entrepreneurship.

08/14/2017: LCCC received the Presidents for Entrepreneurship Pledge College of Excellence Award by the National Association for Community College Entrepreneurship.

11/14/2017: OTN collaborates with the SBDC network to maximize connection of small and medium size enterprises to available services.

02/13/2018: SBDC at LCCC provided entrepreneurship training for veterans considering start-ups during a Veterans Business Forum workshop on Nov. 3.

05/15/2018: An LCC instructor was featured in an entrepreneurship article that was shared nearly

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800 times: <https://bit.ly/2CvU90Q>. Visibility on such a platform generates interest in programs and heightens awareness of Career Pathways.

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Quarter Ending: 03/31/2018

Deliverable ID: 1

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 1 Finalize evaluation plan

Narrative: Finalize evaluation plan with appropriate IRB approval

Expected Start: 10/01/2014

Expected End: 09/30/2017

Actual Start: 01/01/2015

Actual End:

Notes: 05/07/2015: Contracted with program evaluator and initiated development of delivery plan.

08/14/2015: The evaluation team of New Growth Group, working with the Ohio State University's OERC, the OTN project team, college partners, and the OH Dept of Jobs and Family Services, prepared the evaluation plan, which LCCC submitted to DOL on 5-15-15.

11/12/2015: The evaluation plan is complete and has been approved. Reviewer notes were received and are the focus of discussion with our evaluation team.

02/08/2016: OTN explored the need to seek IRB approval and LCCC determined that it is not required. OTN is working with partner schools that have additional questions on this matter.

05/13/2016: OTN is working with CSTCC to pursue IRB approval.

08/15/2016: As of Q7, CSTCC's IRB protocol had been drafted and consent forms were completed. This IRB process continues.

11/14/2016: IRB approval is in progress for CSTCC. Third-party evaluator has addressed IRB committee concerns.

02/14/2017: Post-Completion Surveys were administered to participants and Year 2 Memo was developed and reviewed per the approved evaluation plan. CSTCC IRB approval process has been delayed due to system and website changes.

05/12/2017: Post Completion Survey was improved, administration to participants completing programs in Summer 2016 began. CSTCC IRB approval is in process.

08/14/2017: Interim report was drafted. CSTCC IRB approval is in progress.

11/14/2017: The Interim Report for this grant was submitted in Q12. CSTCC IRB approval is in progress.

02/13/2018: Post Completion Survey was administered to completers. Evaluator completed employer involvement and state/national collaboration inquiries and produced an Interim Assessment of Impact And Sustainability Considerations report: <http://bit.ly/2BOtYT2>.

05/15/2018: Summary Inquiry was administered and the following memos were developed: Fall '17 Post Completion Survey Memo, Q12 Memo, State Collaboration Memo.

Deliverable ID: 2

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 2 Data Management System

Narrative: Common Data Management Systems in place

Expected Start: 10/01/2014

Expected End: 09/30/2017

Actual Start: 10/06/2014

Actual End:

Notes: 05/07/2015: Engaged local WIB as a partner and held preliminary conversations regarding use of Ohio's case management system.

08/13/2015: Met with local WIB partner to discuss data management and previewed OTN's special office in Ohio Workforce Case Management System (OWCMS); crosswalked data fields in the Participant Intake Form to fields in the OWCMS; drafted data sharing agreements.

11/12/2015: Data management systems are in place to consistently capture participant data. Work continues with State of Ohio and evaluation team to proceed on use of the states' case management system for OTN as part of a workforce transformation agenda.

02/08/2016: Data sharing agreements between consortium lead and partner colleges were executed. Work on data sharing agreement between consortium lead and Ohio Dept. of Job and Family Services was initiated.

05/13/2016: OTN continues to work to develop and execute a data sharing agreement between LCCC and Ohio Dept of Job and Family Services.

08/15/2016: OTN and LCCC are collaborating with Ohio Department of Jobs and Family Services for the creation of a data sharing agreement, which will allow OTN participant data to be tracked in the Ohio Workforce Case Management System.

11/14/2016: OTN works to finalize Data Sharing Agreement with Ohio Dept of Job and Family Services to allow Ohio TechNet's utilization of the Ohio Workforce Case Management System.

02/14/2017: In progress of obtaining necessary data sharing agreement to start utilizing the Ohio Workforce Case Management System.

05/12/2017: Data sharing agreement amendment with partner colleges was finalized; execution is underway. Finalization of LCCC-ODJFS agreement is underway.

08/14/2017: LCCC-ODJFS Data Sharing Agreement was finalized; plans to successfully execute are underway.

11/14/2017: Plans to execute LCCC-ODJFS Data Sharing Agreement continued. Training on updated Case Management System was scheduled.

02/13/2018: OTN participated in training on updated case management system (OWCMS) with local workforce staff, and resolution for consequent technical challenges was sought.

05/15/2018: Resolution of technical issues with the Ohio Case Management Workforce System (OWCMS) is ongoing. White paper to describe challenges in OWCMS utilization is under development.

Deliverable ID: 3

Status: Complete

Deliverable Type: Deliverable

Project Goal: 3 Website launch

Narrative: Ohio Tech Net website launch

Expected Start: 10/01/2014

Expected End: 09/30/2017

Actual Start: 10/01/2014

Actual End: 06/30/2016

Notes: 05/07/2015: Expanding use of SharePoint as a collaborative tool for consortium. Preliminary conversations regarding integrating this with public website.

08/14/2015: Communications plan was drafted. Website is a priority for Q4 and Q5.

11/12/2015: Compiling a request for bids for a consultant to help manage the communication plan and strategies for OTN, including development and management of strategies for the website launch.
02/08/2016: RFP was issued for communications consultant; consultant was selected and began to develop outreach/communications strategy.
05/13/2016: Website is currently under development, and expected to launch Q7.
08/15/2016: www.ohiotech.net launched in Q7. Website will be enhanced as needed.
11/14/2016: Ohio TechNet website was enhanced via the launch of additional pages for Employers and Technical Assistance.
02/14/2017: www.ohiotech.net is updated regularly.
05/12/2017: Resources are continually added to website: www.ohiotech.net.
08/14/2017: ohiotech.net is used to share project success and best practices.
11/14/2017: OhioTechNet.org continues to be a resource to communicate project goals and success. Plans are underway to link to PLA site and Making Ohio website, which are being developed.
02/13/2018: PLA tool (fastpathohio.com) and Making Ohio (makingohio.com) websites were launched; plans to link sites with OTN website (ohiotech.net) are underway.
05/15/2018: Determination of appropriate linkage of the following continues: OTN site (<http://ohiotech.net>), online PLA tool (<http://fastpathohio.com>), and Making Ohio site (<http://makingohio.com>).

Deliverable ID: 4

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 4 Benchmark report

Narrative: Benchmark report

Expected Start: 10/01/2014

Expected End: 09/30/2017

Actual Start: 01/01/2015

Actual End:

Notes: 05/07/2015: Conversations with Employer Engagement Specialist in support of CCWC meeting with college presidents in September 2015.

08/13/2015: Report in development.

11/12/2015: A partners meeting on PLA was held which will provide information for a benchmark/strategy report to be created by the contractor, CAEL.

02/08/2016: Survey to collect data for benchmark report for colleges' use of Competency Based Education was developed. In conjunction with our work with CAEL, OTN received PLA benchmarking for many of our partner schools.

05/13/2016: CBE survey distributed, and initial results analyzed. PLA benchmark survey is in development. OTN is researching the CBE and PLA programs developed in prior TAACCCT rounds as we integrate acceleration into program design.

08/15/2016: Benchmarking of OTN programs continue. In Q7, the evaluation team conducted implementation interviews with each school to assess progress and identify any gaps.

11/14/2016: Third-party evaluator prepared project overview, which detailed progress on OTN goals and metrics.

02/14/2017: CCC created a Veterans benchmark survey for OTN. Once all responses are collected, benchmark report will be created.

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05/12/2017: Veteran Benchmark report is in development, this will be finalized in Q11.

08/14/2017: Veteran benchmark report was finalized; results were shared during consortium meeting. RSC staff went on a benchmarking visit to Henry Ford Community College to learn about its Apprenticeship Ecosystem.

11/14/2017: CSCC documented list of basic math skills required for maintenance awareness curriculum and benchmarked math skills needed for Work Keys.

02/13/2018: RSC benchmarked the Proctor & Gamble Youth Apprenticeship program developed in Mehoopany, Pennsylvania.

05/15/2018: LCCC collected materials for upload to <http://SkillsCommons.org>.

Deliverable ID: 5

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 5 Inventory of Strategies

Narrative: Annual inventory of strategies adopted/replicated at partner colleges.

Expected Start: 06/30/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/14/2015: Work Team 2 launched. Annual inventory of strategies is in development. OTN is collaborating with LIFT (lightweight materials NNMI) to pilot Manufacturing Readiness Program at several partner schools.

11/12/2015: This was initially discussed in Q3. We created a baseline of information by creating a statement of work document for each partner college. Team 2 will continue work to compile ongoing data in Q5.

02/09/2016: The framework for the annual inventory will be completed in Q7, designed to easily summarize adopted strategies pulled from quarterly reports.

05/13/2016: OTN continued to develop framework for annual inventory of strategies. Strategies gathered will be shared on OTN website, as this launches.

08/15/2016: Strategies were consistently shared during weekly consortium meetings and weekly consortium update emails; several have been replicated throughout the consortium (e.g. Revolving Loan, project update, Haas scholarship).

11/14/2016: OTN hosted a webinar featuring Columbus State's partnership with Honda which resulted in creation of a successful Earn and Learn model. Honda would like to help colleges replicate this model statewide.

02/14/2017: Weekly consortium meetings are used to share strategies, which are adopted/replicated at partner colleges. Strategies for credential embedment, implementing earn/learn programs, navigation, data management, and reporting were shared in Q9.

05/12/2017: Best practices are continually shared during in-person meetings, webinars, and conference calls. Q10 topics include: apprenticeship, career pathways, participant placement, navigation. Materials are shared on SharePoint site.

08/14/2017: Best practices are shared during in-person meetings, webinars, and conference calls. Q11 topics include: manufacturing readiness/foundations, prior learning assessment, sustainability, reporting, open educational resources.

11/14/2017: Best practices were shared during in-person meetings, webinars, and conference calls.

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Q12 topics include: apprenticeship, prior learning assessment, storytelling, sustainability, data/evaluation. Materials were shared on SharePoint site.

02/13/2018: Best practices were shared during in-person meetings, webinars, and calls. Q13 topics: sustainability, data, PLA, Manufacturing Readiness/Foundations, Staffing Agency partnership. Materials were shared on SharePoint and at ohiotechnet.org/impact/.

05/15/2018: Best practices shared during Q14 include: sustainability, apprenticeship, highlights from the 2018 Workforce Development Institute, Making Ohio outreach resources, data collection/reporting, student surveying, accessibility.

Deliverable ID: 6

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 6 Toolkits

Narrative: Toolkits created or linked via Ohio TechNet site.

Expected Start: 06/30/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Work Teams 1, 2, and 3 were launched, which will develop toolkits relevant to team goals.

11/12/2015: A toolkit for replication of Right Skills Now, an accelerated training model for machining, is in development. Other toolkits will be created over the course of the grant.

02/08/2016: Toolkits for Right Skills Now and data collection and reporting were developed, and distributed using SharePoint. They will be posted once the OTN website launches.

05/13/2016: OTN continues to develop toolkits. These will be posted on OTN website as developed, and as website is launched.

08/15/2016: Site map for OTN's new website includes a section for toolkits; this page will be launched in Q8.

11/14/2016: LCCC enhanced Right Skills Now toolkit and is in the process of creating a toolkit for replication of a Manufacturing Readiness program developed in the Mahoning Valley. This work is supported by OTN and LIFT.

02/14/2017: OTN continues to create content for technical assistance for earn & learn models, including apprenticeships, Right Skills Now and TRAIN OH; as well as manufacturing readiness, grant management, participant and employer engagement.

05/12/2017: Technical assistance resources are shared internally and on website as applicable.

08/14/2017: Toolkits continue to be shared on ohiotechnet.org.

11/14/2017: LCCC Dean, Kelly Zelesnik, collaborated with national partners to provide input to the Brookings' Connecting Community Colleges with Employers Toolkit; this will be added to OTN site.

02/13/2018: OTN supported the development of toolkits for Making Ohio's assets and continued work to promote and refine OMA's sector partnership guidance.

05/15/2018: CSSC is working to produce replication documents relating to welding curriculum innovation.

Deliverable ID: 7

Recipient: Lorain County Community College

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Quarter Ending: 03/31/2018

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 7 AMCP web page

Narrative: Advanced Manufacturing Career Pathways web page updated in partnership with OMJ/Ed/Ind/Wkfc partners

Expected Start: 09/01/2015

Expected End: 09/30/2017

Actual Start: 06/15/2015

Actual End:

Notes: 08/14/2015: Partnership with state of Ohio and LIFT to launch Ohio Manufacturing Careers Council, led by manufacturing CEO's, will drive development of website.

11/12/2015: OTN supported the launch of Ohio Manufacturing Careers Council, an industry-led initiative with 3 areas of focus: outreach/career awareness; skills/education; product commercialization. Career pathways mapping is part of this collaboration.

02/08/2016: OTN continued to work with LIFT, ODHE and OMCC to develop career pathways to be shared on the OTN and a planned OMCC website, linked with OhioMeansJobs. Communications consultant was also hired to lead the development of the OTN website.

05/13/2016: OTN is working with industry partners and Ohio Manufacturing Careers Council to identify career pathways, which can enhance the efforts currently underway at Ohio Dept of Education. ODE career pathways expert presented to OTN via webinar in Q6.

08/15/2016: Research for the replication of Colorado Helps Advanced Manufacturing Program (CHAMP) consortium site (cocareeractiontools.com) is underway. State of Ohio has expressed interest in learning more about this TAACCCT-funded model.

11/14/2016: CCC is planning a Nov '16 event in collaboration with Achieving the Dream.

02/14/2017: OTN works with the State of Ohio and industry leaders guiding an Image Committee of the Ohio Manufacturing Careers Council, as well as those leading work to create a PLA rubric. This informs updates to Ohio's advanced manufacturing career pathways.

05/12/2017: OTN collaboration with ODHE to develop PLA rubric and Train-the-Trainer materials continues.

08/14/2017: OTN lead team issued a RFP to select a third party vendor to create a Prior Learning Assessment Prediction Tool. Selection committee was assembled.

11/14/2017: Several OTN schools are participating in the launch of a statewide PLA Tool which is being developed with the support of OTN.

02/13/2018: FastPathOhio.com (PLA tool) and MakingOhio.com launched. Exploration to integrate career pathways on Making Ohio site was initiated.

05/15/2018: Additional OTN partners have committed to using on online PLA tool: <http://fastpathohio.com>. Exploration to integrate career pathways on <http://makingohio.com> continues.

Deliverable ID: 8

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 8 State wide templates

Narrative: Templates and matls to support consistency in outreach, career advising, and employer engagement

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Quarter Ending: 03/31/2018

Expected Start: 07/01/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Work Team 3 was launched, which will support the adoption of consistency in outreach, career advising, and employer engagement by developing templates. CSTCC is ready to share the PTEC model and its tools and resources.

11/12/2015: A communications consultant is in process of being engaged to develop templates and materials. The Navigator Affinity Group launched which also supports consistency in advising. Employer engagement locally and via OMCC further supports this work.

02/08/2016: OTN adopted a new logo which aligns to Ohio's state branding. Communications consultant and graphic designer were hired, and began to create consistently branded outreach materials.

05/13/2016: Materials for employer engagement are in development. Processes for replication will be documented in Q7.

08/15/2016: OTN is helping in facilitation of the Ohio Manufacturing Careers Council (OMCC). Industry feedback via OMCC will be incorporated into the development of outreach, career advising and employer engagement materials.

11/14/2016: LCCC's graphic designer creates templates as requested.

02/14/2017: OTN graphic designer continues to provide support to OTN schools in developing these materials.

05/12/2017: Navigator affinity group was convened to support sharing of practices. OTN is supporting PLA Portfolio Rubric in collaboration with ODHE. Results will be shared statewide.

08/14/2017: Best practices were shared during Navigator Affinity group meetings.

11/14/2017: Materials were developed through the Ohio Manufacturers' Association Workforce Strategy initiative and are available at <http://www.ohiomfg.com/workforce-services/>.

02/13/2018: OTN supported Making Ohio <http://makingohio.com/> to improve outreach for mfg training and the launch of regional sector partnerships <http://bit.ly/2zVJpb4> to enhance employer engagement and a Workforce Connections Directory <http://bit.ly/2iRuP9G>.

05/15/2018: OTN began to upload grant deliverables to SkillsCommons:
<https://www.skillscommons.org/handle/taaccct/1490>.

Deliverable ID: 9

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 9 Comparative Analysis

Narrative: System to enable analysis of tools/approaches by partners in completion, outcomes, employer satisfaction.

Expected Start: 10/01/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Work Team 3 will create toolkits for employer engagement in intake, success, and placement.

11/12/2015: Individual partner dashboards on participant results, as well as a single page summary

of each college's focus or Statement of Work, have been created to allow for ongoing updates to schools and analysis of best practices for continuous improvement.

02/08/2016: Methodology of preliminary participant surveying was created, Employment Results Scorecard draft is under review, and the evaluation team conducted preliminary round of implementation evaluation interviews.

05/13/2016: Quarterly reports and data templates were modified to better collect information on programs and participants. OTN is working with the evaluation team to consolidate employer outcome tracking.

08/15/2016: Quarterly institutional reports have expanded to collect more employer information. Additional information will be collected in exit surveys. Outcomes prediction tool will be developed in Q8.

11/14/2016: Employment Results Scorecard template was developed, and will be issued as sufficient employment data is available.

02/14/2017: OTN metrics are reviewed regularly and technical assistance is available to schools as needed. Quarterly in-person meetings focus on these topics, guided by the APR outcomes.

05/12/2017: Metrics were continually shared with project management. Revision of executive update is in progress. OTN collaborates with project evaluators for this analysis.

08/14/2017: Reporting processes were continually improved; initial Employment Results Scorecards were produced.

11/14/2017: Employment Results Scorecard and Executive Update templates were shared with state leaders; best practices of TAACCCT grantees were reviewed during TAACCCT convening. Technical assistance was sought; enhancements to improve tools are underway.

02/13/2018: Based on input received at the November Sustainability Meeting, updates to Employment Results Scorecard and Executive Update were made. An Earnings and Employment Scorecard was created given the high percentage of incumbent participants.

05/15/2018: Format and outcomes for Employment and Earnings Scorecard were refined:
<https://wp.me/a7hqUn-A5>.

Deliverable ID: 10

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 10 Get Skills to Work

Narrative: Expanded adoption of Get Skills to Work and statewide tools for outreach/marketing

Expected Start: 06/01/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Work Team 2 will develop tools for outreach materials for Get Skills to Work and Boots to Business. Planned July seminar with Brent Weil from The Manufacturing Institute with a focus on Get Skills to Work.

11/12/2015: Based on updated information, OTN is focusing on engagement and service to veterans in general, not only under the Get Skills to Work brand or model. Veteran outreach and acceleration strategies are a primary focus for OTN.

02/08/2016: LCCC received a \$20,000 grant from the Manufacturing Institute, funded by Lockheed Martin, to replicate a manufacturing readiness program for veterans. The model will be shared and

refined with OTN partners as it is rolled out.

05/13/2016: LCCC has developed manufacturing readiness program, and plans to launch the first cohort in Q7. Outreach to veteran organizations is underway in order to include vets in this cohort.

08/15/2016: Zane worked with SBDC on Reboot-to-Business event.

11/14/2016: Schools continue to prioritize veteran engagement. As of Q8, approximately 5 percent of OTN participants were veterans.

02/14/2017: This area of work is focused on innovations to improve outreach and service to veterans/returning military. CCC is leading technical assistance. LCCC hosted "Operation Job Search" to help military veterans and service members find employment.

05/12/2017: CCC continues to provide guidance on veteran outreach.

08/14/2017: CCC shared results of Veteran Benchmark; application of results was suggested.

11/14/2017: CCC hosted Veterans Experience Action Center to target veterans. LCCC hosted Veteran Ideation Session to develop outreach strategy.

02/13/2018: PLA tool website assisted veteran in creating a PLA petition. CCC received tuition assistance for veterans from the Cuyahoga County Veteran Service Commission.

05/15/2018: LCC veterans were advised of their eligibility to fast track into the Carpenters Apprenticeship Program. LCCC's Society of Women Engineers co-hosted a Career Exploration Program exam to match military members to programs.

Deliverable ID: 11

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 11 Safety enrollment system

Narrative: Dual enrollment system between OSH Training Institute coursework and community colleges established

Expected Start: 02/28/2015

Expected End: 09/30/2015

Actual Start: 02/15/2015

Actual End:

Notes: 05/07/2015: Preliminary discussions regarding scope of work for safety contractor.

08/14/2015: OTN contracted with subject matter experts to support project management related to deliverables for the safety education and training component, including engagement of industry partners for a statewide advisory council related to this component.

11/12/2015: Statewide Safety Industry Council launched. Representatives from OSHA, industry, workers comp, and education attended. Q4 focus includes compliance with OSHA rules for use of OSHA Training Institute curriculum and OER rules for TAACCCT.

02/08/2016: 2-year Occupational Safety degree courses were identified that align to competencies required of safety professionals.

05/13/2016: OTN is re-evaluating its approach to achieving this goal and will continue dialogue with OTI and ETA along with our industry and educational partners.

08/15/2016: LCCC met with CCC to explore leveraging its success creating a dual enrollment process for students, working with an OSHA Education Center. Collaboration is also in development for the recruitment and credentialing of instructors & joint marketing.

11/14/2016: With a dual enrollment system, LCCC must have a partnership with an OSHA Education Center; good progress has been made. In the coming quarter, LCCC will issue a new

request for proposals to seek an Education Center partner.

02/14/2017: LCCC and CCC collaborate to achieve this goal, which has had unexpected challenges. Program design reflects requirements for students to earn OSHA credentials, while we seek a solution to having a reliable OSHA Education Center partnership.

05/12/2017: OSHA training models were integrated into curriculum. RFP was sought for technical assistance to support execution of dual enrollment; SCT was selected. LCCC and CCC pursue direct application to become OSHA Education Centers.

08/14/2017: LCCC and CCC continue to collaborate on program development and marketing, and strategies to partner with an OSHA Education Center. Discussions with Northern Illinois University were held.

11/14/2017: Additional discussion regarding host site agreements was conducted; LCCC and CCC are in discussion about obtaining a Host Site Agreement with Northern Illinois University.

02/13/2018: Pursuit of Host Site Agreement with Northern Illinois University proceeds; employer partner provided guidance on obtaining agreement. ZSC instructor started to undergo training to become certified OSHA instructor.

05/15/2018: LCCC continues to pursue partnership with an OSHA training center. Safety Controls Technology, a required employer partner, provided further guidance to help LCCC prep for a meeting with Northern Illinois University to discuss a host site agreement.

Deliverable ID: 12

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 12 Safety Degree Pathway

Narrative: Articulated degree pathway and a professional certificate program

Expected Start: 02/28/2015

Expected End: 09/30/2017

Actual Start: 02/28/2015

Actual End:

Notes: 08/14/2015: Work Team 1, working with a statewide industry council comprised of subject matter experts, will assist in developing a Safety Degree Pathway.

11/12/2015: Statewide Safety Industry Council was launched to help design/create the Safety Career Pathway. Representatives from OSHA, industry, workers comp, and education attended. Partners also report embedding OSHA training into technical fields of study.

02/08/2016: Work on creation of 2-year Safety Degree is in process, driven by input of Statewide Safety Industry Council.

05/13/2016: OTN has developed the course outline for a 2-year Safety degree, and received LCCC curriculum council approval. Content development is underway and state/HLC approval will be pursued.

08/15/2016: Pathway is in development. Three courses have been completed this quarter, working with subject matter experts and designed to align to both academic requirements and OSHA learning outcomes.

11/14/2016: Offering dual enrollment requires that instructors meet both academic and OSHA qualifications. This increases the challenge of instructor recruitment. LCCC and CCC are working together to maximize shared use of instructors at both institutions.

02/14/2017: Occupational Safety training will begin at LCCC this summer. CCC provided

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environmental health and safety training to: 38 students, 20 instructors, 15 safety professionals.

Connection to 4-year programs is underway to identify articulation pathways.

05/12/2017: CCC initiated conversation with Findlay University to explore articulation options for Safety degree. Curriculum for LCCC certificates and degree were approved at curriculum council.

ODHE approval of Industrial Safety Technician program is sought.

08/14/2017: Industrial Safety Technician program was approved by ODHE.

11/14/2017: LCCC and CCC partnered to offer safety programs in Fall 2017. LCCC courses are scheduled to begin in October 2017.

02/13/2018: CCC has started working to align Environmental, Health and Safety Technology Program to STEM Meta-major, which would further enhance career pathways for this program.

05/15/2018: Courses for Industrial Safety degree will be offered in Fall 2018.

Deliverable ID: 13

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 13 Participant Outcomes

Narrative: Agreements in place with state and regional workforce leaders for coordinated tracking and reporting

Expected Start: 10/01/2014

Expected End: 09/30/2017

Actual Start: 01/01/2015

Actual End:

Notes: 03/20/2015: using Ohio's Workforce Case Management System

08/14/2015: OTN benefits from an extremely collaborative relationship that exists with our local WIB and state agencies. Our local WIB partner spearheads OTN's use of state systems for data management. This is critical to transformational change.

11/12/2015: Work continues with the State of Ohio and evaluation team to move forward on use of the states' case management system for Ohio TechNet as part of a workforce transformation agenda.

02/09/2016: Systems are in place for OTN to utilize the Ohio case management system; a data sharing agreement between Ohio Dept. of Job and Family Services and LCCC is in development.

05/13/2016: OTN continued to work with Ohio Dept of Job and Family Services to develop and execute data sharing agreement which will allow usage of the Ohio Workforce Case Management System to track OTN data.

08/15/2016: LCCC sent requested information to Ohio Dept. of Job and Family Services, which will be used to draft data sharing agreement between department and LCCC.

11/14/2016: OTN works to finalize Data Sharing Agreement with Ohio Dept of Job and Family Services to allow Ohio TechNet's utilization of the Ohio Workforce Case Management System.

02/14/2017: Finalization of Data Sharing Agreement with Ohio Department of Jobs & Family Service is in progress.

05/12/2017: Finalization of Data Sharing Agreement with ODJFS is in progress, data sharing restrictions exist.

08/14/2017: LCCC-ODJFS Data Sharing Agreement has been executed.

11/14/2017: Expansion of LCCC-ODJFS agreement is under consideration.

02/13/2018: Consideration to expand LCCC-ODJFS agreement is underway, as technical issues with OWCMS exist.

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05/15/2018: Additional agreements with ODJFS will not be pursued at this time. Expanded agreements with new and existing OTN colleges are being explored.

Deliverable ID: 14

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 14 Best Practices Repository

Narrative: Repository of Ohio best practices and technical assistance

Expected Start: 06/30/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Work Teams will research best-practices relevant to team goals. During successful June Collaboration Meeting with consortium partners, resource sharing took place. Partners volunteered to develop repository.

11/12/2015: OTN uses SharePoint to share information, templates, best practices and links to important technical assistance. The OTN website will be an additional resource to share information with a broader audience, and OMCC is anticipated to complement this.

02/09/2016: OTN uses SharePoint as repository. To reach more colleges and career tech centers, OTN is working with the Talent Development Network to offer workshops at an April '16 conference. The OTN website and social media tools will further expand access.

05/13/2016: OTN continued to use SharePoint as a repository for best practices and technical assistance.

08/15/2016: Site map was created for website, which includes best practices and technical assistance sections. These pages will be launched in Q8.

11/14/2016: Technical Assistance page on Ohio TechNet website has launched. Ongoing use of SharePoint for resource sharing and TA materials.

02/14/2017: Best practices are continually gathered. These are shared with consortium, stakeholders, and others via consortium meetings and correspondence, website, and will be shared on SkillsCommons.

05/12/2017: ohiotechnet.org/impact/ currently houses information regarding best practices.

08/14/2017: Best practices are regularly shared via consortium meetings; these are shared externally via ohiotechnet.org.

11/14/2017: Best practices continued to be documented via weekly newsletters and on ohiotechnet.org.

02/13/2018: Best practices and technical assistance shared via SharePoint, weekly newsletters, and on ohiotechnet.org: <http://ohiotechnet.org/consortium-update-archive/>.

05/15/2018: Best practices continue to be shared internally and via OTN website. Upload of deliverables to <http://SkillsCommons.org> has begun.

Deliverable ID: 15

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 15 Replicate Boots-to-Biz

Recipient: Lorain County Community College

Grant Number: TC-26435-14-60-A-39

Quarter Ending: 03/31/2018

Narrative: Replicate Boots to Business SBDC program

Expected Start: 10/01/2015

Expected End: 09/30/2017

Actual Start: 01/05/2015

Actual End:

Notes: 08/14/2015: Work Team 2 will develop tools for outreach for Boots to Business. A spring Boots to Business workshop organized by LCCC with the SBDC was postponed due to low enrollment. LCCC is working to revise outreach strategies with veteran agencies.

11/12/2015: Rhodes State SBDC and Columbus State are looking to replicate Boots to Business program.

02/08/2016: Columbus State is reviewing opportunities to replicate Boots to Business and Zane State is planning a Boots to Business event which will take place in May 2016.

05/13/2016: CSCC and LCCC continued to work with local SBDC's to determine steps for the replication of a Boots to Business type of program. ZSC continued to work with local SBDC to plan Reboot for Business event.

08/15/2016: ZSC hosted Reboot to Business event, working with local SBDC.

11/14/2016: SBDC at LCCC is planning for a veterans' entrepreneurship training session in November.

02/14/2017: LCCC hosted a panel of veteran business owners to discuss opportunities for entrepreneurs after serving in the military.

05/12/2017: Veterans interested in entrepreneurship were referred to local SBDCs.

08/14/2017: Veterans continue to receive services via local SBDCs.

11/14/2017: Veterans received services via local SBDCs.

02/13/2018: The SBDC at LCCC partnered with Cleveland's Small Business Administration to facilitate a start-up workshop for a Veterans Business Forum on Nov. 3.

05/15/2018: CCC's Veterans Initiative hosted a series of "Ready for Employment Boot Camps" for student veterans preparing for transition into the workforce.

Deliverable ID: 16

Status: Ongoing

Deliverable Type: Deliverable

Project Goal: 16 Maker Movement White Paper

Narrative: White paper on Maker Movement initiative and implications for TAA/veterans pursuing self employment.

Expected Start: 10/01/2015

Expected End: 09/30/2017

Actual Start: 06/16/2015

Actual End:

Notes: 08/13/2015: Work Team 3 was launched and will support this deliverable. This team is charged to create a Maker Movement white paper. LCCC launched plan to host Ohio Makes conference in October 2015.

11/12/2015: Fab Lab in development at Zane. LCCC in process of expanding Advanced Technology Center to include Additive Mfg Lab and Digital Processes. Models from CCC's previous TAACCCT investment to create an additive manufacturing center leveraged.

02/08/2016: OTN has convened experts from partner schools to help develop this white paper.

05/13/2016: OTN continued to collect information to be used in this White paper.

08/15/2016: OTN partners are engaged in significant activity related to the Maker Movement, both new facilities and integration of new technology and teaching strategies into programs of study. These activities inform the development of the white paper.

11/14/2016: LCCC is working on a concept to partner with Ohio State University to host a graduate student to assist with white papers related to the lessons and impact of OTN.

02/14/2017: Significant growth of resources and initiatives to support the maker movement, and connect dislocated workers and/or returning military members to these opportunities continues among OTN partner colleges.

05/15/2017: Due to RSC's active participation in the Annual MakersFest in Lima, OTN lead team explored seeking RSC's assistance in contributing input for the OTN Maker Movement white paper.

08/14/2017: OTN lead team continues to develop an impactful strategy for the Maker Movement White Paper.

11/14/2017: Program Developer was hired to support development of Maker Movement White Paper.

02/13/2018: Work is underway to document OTN partnership with Mfg USA institutes as a way to support making and innovation in Ohio.

05/15/2018: OTN partnership with Mfg USA institutes continues to be documented. A sampling of partnership is highlighted in weekly consortium updates:

<http://ohiotech.net.org/consortium-update-archive/>.

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E. Status of Progress and Implementation Measures

No strategies recorded

F. Key Issues and Technical Assistance Needs

Title	Description
Job Placement and Tracking	OTN held consortium meetings with a focus on job placement and tracking to address challenges experienced by OTN partners. LCC's Data Manager has begun going into classrooms and requesting that participants complete new employment verification forms and has made plans to coordinate with instructors to reach out to students.

G. Best Practices, Promising New Strategies and Success Stories

Best Practices and Promising New Strategies

1 Employer Engagement

OTN now has 473 employer partners. As we collaborate with the Ohio Manufacturers' Association to launch regional sector partnerships throughout Ohio, employer partners continue to engage by participating in Advanced Manufacturing apprenticeship programs, connecting with CEOs to discuss sector partnership options in regions where none exist and participating in workforce development strategy meetings.

2 Mfg Readiness/Foundations

OTN partnered with Lightweight Innovations for Tomorrow (LIFT) to develop a Manufacturing Foundations Certificate which expands on the Manufacturing Skill Standards Council's (MSSC) Certified Production Technician (CPT) program. This new certificate was endorsed by The Ohio Manufacturers' Association and recognition from the state education agencies will be sought in Q15. CSCC, LCCC, RSC currently offer MSSC CPT training and may be asked to pilot the new MFG Foundations Certificate in Fall 2018.

3 Partnering w/ Reentry Programs

RSC's partnership with the Western Ohio Regional Treatment and Rehabilitation Center, to provide Manufacturing Skill Standards Council training for women offenders, was featured by a news outlet: <https://bit.ly/2wBtPre>. CSCC engaged with the reentry population by partnering with Alvis House: 12 individuals were recruited as participants. One student, who had recently been released from prison and had no prior MFG experience, used training to catapult himself into a high-wage career.

4 Tracking Employment

LCCC replicated CCC's use of an online submission form to track employment data for OTN participants. The user-friendly Career Success Form was added to the Career Services site and the

link was emailed to all OTN completers: <https://bit.ly/2IcgHXU>.

5 Retention of Navigation Svcs

The value of student support has been exemplified by student success and documented in OTN sustainability documents. SCC has retained student support by integrating these activities into existing college departments and positions. LCC's Navigator will extend support services to all Engineering Department students.

Success Stories

1 Student Placement

Elliott was offered an internship with Bird Tech through LCCC's TRAIN OH model; Bird also offered to pay for Elliot's pursuit of BA in Microelectronic Mfg at LCCC. Hosemasters hired a CCC participant as a TIG welder. American Tank & Fabricating hired two exemplary CCC participants. Ian completed CSTCC's Welding MIG Certificate and was hired by ThyssenKrupp as welder at \$15/hr. Kevin was hired as a welder at AMETCO at \$17/hr after completing 4 welding certificates at LCC.

2 Student Wage Increases

Erik was hired by Meyer Tool at \$13/hr after completing CSTCC's Machine Operator Program and will transition to long-term employment in April with a pay increase. LCC Welding students Luis and Nathan earned \$10.50/hr when enrolling; Luis was hired at Lincoln Electric at \$16/hr and Nathan was hired by Sheet Metal Products at \$13/hr.

3 M-List Approval

CSSC has been approved to become a member of the Manufacturing Institute's M-List. The M-List distinguishes quality manufacturing education and training programs that are a preferred source of talent for manufacturing employers. CSSC joins other OTN colleges in showcasing their college as a leader in manufacturing education: <https://bit.ly/1NabjwL>. OCC is in the M-List application process.

4 Expansion of Manufacturing CBE

SCC piloted two new Competency-Based Education (CBE) courses in Q14: CAM 1214 and CAM 1142. Projected completion rate is 100%. SCC's OTN CBE students are completing courses 40% faster than students enrolled in non-CBE courses and 22% faster than students in other comparable CBE programs.

5 BA Degree Delivery Approval

The success of the MEMS program led to LCCC's approval to deliver Ohio's first Applied Bachelor's Degree in Microelectronic Manufacturing, pending approval from the Higher Learning Commission. Thanks to the passing of House Bill 49, Ohio joined 20 other states that allow community colleges to confer bachelor's degrees and LCCC will be leading the way along with OTN colleagues at SCC and CSTCC: <https://bit.ly/2ApAcs8>.

H. Additional Outcome Information

Collaboration is positively impacting OTN students! CCC introduced LCCC to a new contact from Lincoln Electric (LE) interested in hiring LCCC MEMS students. This new relationship with LE led to a tour for 20 LCCC students and employment for several of these students, including a laid-off steel worker who was utilizing TAA benefits for his education. These jobs provide family sustaining wages. Benefits include tuition reimbursement which will assist in attainment of growth opportunities for these recent hires. We value LE's support throughout this grant and appreciate the collegial relationship with our partner institutions which leads to further expansion of industry relationships.