

Recipient: Lorain County Community College

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

Quarter Ending: 12/31/2017

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**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:**

12/31/2017

**Date of Submission:**

02/13/2018

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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). Interest/utilization of work-based learning models heightened in Q13. RSC continued to assist OTN colleges with college apprenticeship sponsorship inquiries. CSTCC, CCC, EGCC, LCCC, and RSC have collaborated with employers to explore/develop apprenticeships; 13 employers showed interest in apprenticeship, with several adopting college-sponsored apprenticeship models. LCC made plans to replicate the TRAIN OH earn-and-learn model developed and piloted by LCCC. OTN advanced the Ohio Manufacturing Workforce Strategy by supporting the: development/facilitation of the inaugural Ohio Manufacturers' Workforce Summit on Nov. 1 in partnership with the Ohio Manufacturers' Association (OMA), the Ohio Dept. of Higher Ed (ODHE), and others; launch of Making Ohio website ([makingohio.com](http://makingohio.com)) and Making Ohio social media campaign (<http://bit.ly/2BPRMpK>). Sustainability efforts gained traction as national and state leaders, including Cheryl Martin from DOL and Jennifer Freeman from Jobs for the Future, joined OTN partners and other Ohio

TAACCCT grantees for a convening on Nov. 30. OTN's sustainability vision was further developed, and survey was administered to determine activities. SSC led an OTN video project, conducting interviews with participants, students, staff/faculty, and employers: CCC, LCCC, and SSC participated in Q13. RSC continued to develop Process Operations curriculum in collaboration with industry partners, utilizing a Performance Based Objectives List developed in a previous TAACCCT project. OTN sought to resolve monitoring findings in adherence to its Corrective Action Plan. OTN received technical assistance from other TAACCCT grantees, discussed reporting procedure adjustments for B.7 outcome exception, updated/administered post-completion survey procedure, held a data reporting training. Outcomes are closer to targets, e.g. OTN has attained 104% of B.1 and 74% of B.2. OTN collected monthly budget tracking forms from colleges and began to determine reallocation schedules to resolve low expenditure issues. Actual reimbursement for OTN grant expenses at Dec. 31 was 80.5%.

## **B. Status Update on Leveraged Resources**

### **Provide an update on the organizations that contributed the resources:**

SCC: in-kind salary (\$3,053.31). LCC Welding Advisory Committee members: committee participation (\$1,250). Select LCC Employer Partners: employer panel participation (\$225). CSCC: Integrated System Technology Lab facilities and equipment (\$8,488.80). SSC: engineering equipment (\$9,143.10). Lincoln Electric: consumable supplies (\$3,021.60). The following unclaimed indirect costs were leveraged by OTN partner schools: CSTCC: \$74,087.80; CCC: \$27,514.04; EGCC: \$7,352.23; LCC: \$21,265.82; LCCC: \$36,600.10; OCC: \$5,675.26; RSC: \$8,061.83; SCC: \$17,119.55; SSC: \$5,371.78; ZSC: \$4,521.50.

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

In-kind salary of Co-Directors at Sinclair was used to advance project goals. LCC Welding Advisory Committee participation consisted of curriculum development. Select LCC employer partners participated in employer panel to connect students to employment opportunities. CSCC's Integrated System Technology Lab facilities and equipment were utilized. SSC's engineering equipment was used in instruction of grant-affected course. Consumable supplies from Lincoln Electric were used by students in LCC's Welding Lab. Unclaimed indirect costs supported administrative services vital to grant deliverable attainment.

### **Comments:**

Additionally, CSCC's lab usage cost from Q12, reported in Q13: \$7,781.40; and EGCC's Q12 leveraged unclaimed indirect costs reported in Q13: \$6,911.57.

### **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 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 served in a leadership capacity for the Ohio Mfg Workforce Strategy (WS). Roles are outlined below.

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

Air Tech:CD,AP. AJ Rose:SD,CP,CPC. Bettcher:SD. Bi-Con:SD,CPC,HPC,AP,WS.  
Diamond:SD,CP,AP. Bob Evans:CD,SD,AP. Dana:CD,SD,CPC,AP. Dannon:SD. Dayton  
Lamina:PW,CPC,HPC,AP,T. Enginetics:AP,T. F&P:SD,HPC. Gasdorf:SD,AP. General  
Plug:PW,SD,CP,CPC,HPC. Jerl:CD,SD,CPC,AP. Kern-L:CD,SD,CPC,AP. Kerry:CP,AP,T,WS.  
Koneta:SD. Lincoln:CD,CPC,AP. L&W:CP. Nordson:SD. P&G:PW,SD. Patriot:AP. Pioneer:AP.  
Quanex:SD,CP,AP,T,WS. Rudolph:CP,AP. Beckett:SD,CP,CPC. Safety Ctrl:CD,SD,CP,AP.  
SGS:SD,CPC,AP. US Bridge:AP.

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

Impact of low unemployment rates in central Ohio, and subsequent low program enrollment/completion, contributes to employer hesitation to pursue partnership with CSCC. Employer resistance to engage with CSTCC continues, as employers seek workers who have more experience. Past issues with employment retention is also a concern which the college is addressing via numerous in-person meetings with employers. OTN colleges have also expressed challenges in

engaging small/mid-sized companies.

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

In Q13, 44 employers were added. 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; participation in Mfg Day/Month events.

**Comments:**

More than 450 employers and workforce leaders attended the Ohio Manufacturers' Workforce Summit on Nov. 1. Consequently: AJ Rose and Thogus expressed interest in being employer champions for a regional sector partnership supported by LCCC; Kerry, Detroit Diesel, LMI, Quanex participated in Southeastern Manufacturing Council and assisted in creation of Careers in our Community website. CCC recognized Lincoln Electric as a premier employer partner due to their assistance in curriculum development, equipment/tech referrals, articulation. An additional 13 employers expressed interest in/pursued apprenticeship models with college assistance. 8 employers expressed interest in incumbent training.

**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's attention to state and national priorities has generated widespread impact and recognition. RSC presented at ApprenticeOhio's College Apprenticeship Consortium Grant Meeting on Oct. 25, launched 3 apprenticeship programs in occupations that hadn't been offered previously, and worked with Grob Systems to develop apprenticeship for Design Engineering Technicians – Grob plans to train 40 mfg apprentices in the upcoming year. CCC received an award from the state for its Precision Machining Registered apprenticeship program. CCC and LCCC collaborated to launch an apprenticeship program with employers in Medina County. OTN works closely with OMA and mfg employers to provide input to an Ohio Mfg Foundations curriculum and serve as a vehicle for expansion of earn and learn partnerships. OTN supported the development and launch

of a statewide Prior Learning Assessment Tool website [fastpathohio.com](http://fastpathohio.com), working closely with the Ohio Dept of Higher Education. LCCC is finalizing paperwork to lead several SkillsCommons initiatives: Editorial Board for Manufacturing (in partnership with OMA), Ambassador for OMA SkillsCommons Portal and Ambassador for a Women's Outreach IMPACTcommunity. LCCC and CCC workforce development leaders spoke on a panel during Crain's Manufacturing Assembly on Nov. 14, discussing collaborative efforts undertaken to strengthen the talent pipeline. ZSC is considering expansion of Industrial Systems Engineering Technology program to its main campus due to success on a secondary campus. OTN colleges participated in Manufacturing Month/Day activities in varying degrees: OCC held Mfg Expo which connected a participant to multiple employers, and eventually led to two job offers for that student; CSTCC and LCCC hosted/participated in several events in partnership with a local economic development collaborative, employer partners, and local school districts (<http://bit.ly/2BWWYrT>, <http://ford.to/2En3wSj>).

**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.org](http://www.ohiotech.net.org) 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.

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**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 ABLE 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 ABLE 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. ABLE 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 ABLE, utilizing Course Skills Mastery and Online Math Adaptive. PLA work with State of Ohio is progressing.

02/14/2017: LCCC partners with ABLE 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: ABLE partners support colleges. Math contextualization continues. LCCC RAMP programs now include contextualized Reading and Math, also available through ABLE. 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 ABLE/GED). RSC created contextualized math seminar for maintenance technicians. CCC works with Adult Diploma Program and local GED prep nonprofit to recruit students.

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**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 OAACE 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



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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.

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**Activity ID:** 4

**Status:** Ongoing

**Activity Type:** Activity

**Project Goal:** 2.3 Strengthen Emplr 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.

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**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.

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**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.

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**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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**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.

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**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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**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

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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.



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**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>.

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**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

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**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.

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**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.org 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.org is updated regularly.

05/12/2017: Resources are continually added to website: www.ohiotech.net.org.

08/14/2017: ohiotech.net.org 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.org) are underway.

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**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.

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.

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**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.

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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. 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/](http://ohiotechnet.org/impact/).

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**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](http://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.

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**Deliverable ID:** 7

**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.

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**Deliverable ID:** 8

**Status:** Ongoing

**Deliverable Type:** Deliverable

**Project Goal:** 8 State wide templates

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

**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>.

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**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 satisfn.

**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.

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**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.

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**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.

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**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 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.

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**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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**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: [ohiotech.net.org/impact/](http://ohiotech.net.org/impact/) currently houses information regarding best practices.

08/14/2017: Best practices are regularly shared via consortium meetings; these are shared externally via [ohiotech.net.org](http://ohiotech.net.org).

11/14/2017: Best practices continued to be documented via weekly newsletters and on [ohiotech.net.org](http://ohiotech.net.org).

02/13/2018: Best practices and technical assistance shared via SharePoint, weekly newsletters, and

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on ohiotechnet.org: <http://ohiotechnet.org/consortium-update-archive/>.

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**Deliverable ID:** 15

**Status:** Ongoing

**Deliverable Type:** Deliverable

**Project Goal:** 15 Replicate Boots-to-Biz

**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.

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**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.

## F. Key Issues and Technical Assistance Needs

Title	Description
Program Enrollment	LCCC continues to seek students for the new Industrial Safety program. OSHA and industry partners spoke at information sessions; one session was held at OhioMeansJobs Lorain with career advisors present. Additionally, a new apprenticeship partnership with an area employer, and a Host Site Agreement with an OSHA Education Center are being pursued. Recruitment remains a challenge at EGCC.
Job Placement	OTN colleges face challenges in collecting post-completion feedback from participants. Post Completion Surveys are administered each semester, and current response rate is 23%. To address challenges, LCCC replicated CCC's practice to utilize online forms to collect placement information.
Staffing	EGCC replaced its Chief Financial Officer, and is still looking to hire an adjunct/non-credit welding instructor. Navigator role at SSC, and Project Manager and Data Specialist roles at CSCC transitioned to new staff. Navigators at CSCC and RSC left; colleges are working to fill positions.

## G. Best Practices, Promising New Strategies and Success Stories

### Best Practices and Promising New Strategies

#### 1 Apprenticeship

OTN schools have deployed a multipronged approach to expanding apprenticeship. Many schools have become apprenticeship sponsors. As a sponsor, RSC was able to tailor program curriculum to meet specific industry needs, while still providing foundational curriculum. RSC is also developing a Youth Apprenticeship with P&G aligned to Industrial Manufacturing Tech coursework, providing youth a seamless transition to RSC.

#### 2 Flexible Course Schedule

ZSC offers technical courses in daytime and evening sections, allowing workers on swing shifts to rotate between the sections as their shift changes. This addresses scheduling barriers that may prevent incumbent workers from pursuing training.

#### 3 Competency-Based Education

The Competency-Based Education (CBE) model for manufacturing continues to yield great results. The course success rate for CBE Manufacturing students at SCC is 78%, and CBE students are credentialing 5% faster than their traditional course counterparts. Further, students are completing

with a 10% higher credentialing rate.

#### **4 Community Service Projects**

LCC's Industrial Welding students participate in designing/building service projects including: railings for Willoughby Fine Arts, bench for Rotary fundraiser, maker's tables for LCC's HIVE. Service projects represent project-based learning through the integration and application of concepts introduced in the classroom as well as an introduction to welding for others. The Midwest Railway Preservation Society is exploring opportunities for students to volunteer on Railway preservation projects.

#### **5 Employer Engagement**

OTN supported OMA and others in hosting the 1st Ohio Manufacturers' Workforce Summit: 450+ employers and workforce leaders attended. State and national leaders presented: Ohio Governor Kasich; Jay Timmons, National Association of Manufacturers President; Eric Burkland, OMA President. Find highlights at <http://bit.ly/2ypebbV>. Representatives from SkillsCommons also attended and received approval to create a customized portal for OMA which will feature manufacturing curriculum from SkillsCommons.

### **Success Stories**

#### **1 Making Ohio Campaign**

OTN supported the Nov. 1 launch of the Making Ohio campaign. This outreach campaign includes a website <http://makingohio.com/>, social media pages, and newly developed assets that could be customized and used by interested parties. The 30 day social media campaign was successful, garnering 365 new followers, 1,184 new site visitors, 1,691 social link clicks, 58,000 total engagements and a 6.6% engagement rate. This was also featured by varying news outlets, e.g. <http://bit.ly/2BPRMpK>.

#### **2 Participant Wage Increases**

Korey was hired as a Welder after completing CSTCC program, and received a \$3/hr wage increase. LCC students experienced similar results: Nicole received \$9/hr increase after transitioning from receptionist work to welding; Christian continues to advance, with wages going from \$10.50, to \$13, to \$18/hr; Ryan was earning \$8.60/hr at enrollment is now earning \$14/hr as a welder.

#### **3 Student Placement**

Joe entered employment after starting Industrial Welding program at LCC, and now earns \$15/hr. Johnathon went from cleaning industry to Machine Operator at \$15/hr; James came from foodservice/retail, and now works as a Welder at \$12/hr. Several CCC students were placed: Marcus makes \$15/hr as a Welder; Damian was hired as a Certified Hose Specialist at \$14/hr.

#### **4 Prior Learning Assessment**

OTN supported launch of Prior Learning Assessment tool website: [fastpathohio.com](http://fastpathohio.com). Four OTN



colleges participated in Phase 1 of the launch on Dec. 7, with a veteran immediately using the tool to create a petition to earn credit for their prior work or life learning experiences. Four additional colleges are slotted to participate in Phase 2, which launches in Mar. 2018.

### **5 Upskilling Incumbent Workers**

OTN colleges provided significant incumbent training in Q13. CCC pursued articulation for Lincoln Electric courses, which will give incumbent workers an incentive to obtain credit toward an Integrated Systems Engineering Tech degree. LCC entered agreement with Parker Hannifin to provide customized welding training for employees. An incumbent worker at Jet Machine was promoted after completing CSTCC certificate. Jet Machine sponsored the training and “couldn’t ask for a better employee.”

### **H. Additional Outcome Information**

November was bookended by two important events: The Ohio Manufacturers’ Workforce Summit on Nov. 1 and the OTN Sustainability Convening on Nov. 30. In addition to welcoming our colleagues from DOL and JFF to the Sustainability Summit, representatives from state agencies attended as well as key administrators from all of Ohio’s TAACCCT-funded colleges. Expansion of OTN is underway as we welcome Northwest State, Clark State and North Central State to join our sustainability team. Employer engagement accelerates as a result of our partnership with OMA. Our goal is alignment with NAM and other national organizations as we identify sustainability strategies. Momentum continues to build!