

Recipient: Lorain County Community College

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

Quarter Ending: 12/31/2016

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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:**

12/31/2016

**Date of Submission:**

02/14/2017

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**A. Quarterly Summary for Grant Activities**

Ohio TechNet (OTN) is a consortium with 5 programs: Welding, CNC/Machining, Industrial Maintenance, Digital Fabrication/Industrial Automation, Occupational Safety. 4 programs have launched,; Safety program will launch in Y3. Schools include Cincinnati State (CSTCC), Columbus State (CSCC), Cuyahoga (CCC), Eastern Gateway (EGCC), Lakeland (LCC), Lorain (LCCC), Owens (OCC), Rhodes (RSC), Sinclair (SCC), Stark (SSC), Zane (ZSC). In Q9, OTN collaborated with the Governor's Office of Workforce Transformation, Ohio Dept of Higher Ed (ODHE), Ohio Manufacturers' Assn (OMA), Ohio Manufacturing Institute and LIFT to develop a statewide employer engagement strategy to address Ohio manufacturers' workforce issues. OMA will lead this workforce strategy to ensure sustainability. With potential to connect with OMA's nearly 1,500 manufacturing members statewide, this offers an effective way to expand OTN's impact beyond the 291 employer partners currently engaged. In support of OTN's pilot of TRAIN OH, a MEMS-focused earn & learn model addressing talent needs of Ohio's high-tech industry, Manufacturing USA's NextFlex institute awarded LCCC a grant to support the pilot and expand the impact. OTN director, Terri Burgess Sandu, presented at Manufacturing USA's White House meeting 12/21/16. PLA progress continues. OCC mapped 4 MFG courses with associated PLA credits. CCC crosswalked Lincoln Electric's (LE) noncredit industry training with CCC's Welding programs with the goal of awarding PLA credit for LE employees pursuing a degree. Veterans enrolled in LE's Robotic Welding classes are referred to CCC for a PLA assessment of military

experience to accelerate degree completion. SCC now awards academic credit for noncredit workforce development programs (WD); 8 students were awarded up to 10 academic credits each toward an AAS degree. LCCC continues to expand opportunity for accelerated skills training of transitioning workers, including TAA workers. Under OTN, LCCC trained 18 Right Skills Now participants, 33% of whom were TAA-certified. All completed classroom training and started internships, with the goal of progressing into full-time employment. LCC's expanded welding program was featured in the December 2016 AWS Journal: <http://bit.ly/2ku58vn>. RSC, SSC, LCCC, CCC's OTN staff teamed with academics to embed various certifications such as National Institute of Metalworking Skill (NIMS), Fanuc Robot, American Welding Society (AWS) and ServSafe credentials into courses.

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

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

Nelson Stud Welding: stud welding samples (\$200). State of Ohio: capital funding (\$108,080). SCC: in-kind salary (\$2,263.28). The following unclaimed indirect costs were leveraged by OTN partner schools: CSTCC: \$13,470.40; CCC: 12,295.78; EGCC: \$7,856.98; LCC: \$28,723.20; LCCC: \$30,643.55; OCC: \$18,419.74; RSC: \$16,155.98; SCC: 13,379.75; SSC: \$8,059.48; ZSC: \$10,064.47.

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

Unclaimed indirect costs supported administrative services vital to grant deliverable attainment. Stud welding samples were used in classroom demonstration. Capital funding was used to purchase machining equipment. In-kind salary of Co-Directors at Sinclair was used to advance project goals.

### **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.**

In Q9, required employers supported OTN in at least one of the following ways: participated in program/curricular design (CD), hosted paid work experience (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 on the Ohio Manufacturing Careers Council (OMCC). Specific roles are outlined below.

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

AJ Rose:SD, Crane:SD, CPC, AP, General Plug:PW, SD, CPC, HPC, AP, Nordson:SD, HPC, AP, Beckett:AP, Lincoln Electric:CPC, SD, CD, Air Technical:PW, Dana Automotive:CD, SD, CPC, AP, Jerl Machine:CD, SD, CPC, AP, Kern-Liebers:CD, SD, CPC, AP, Bob Evans:CD, PW, SD, Dannon:SD, Gasdorf:SD, AP, Koneta:SD, P&G:CD, PW, SD, T. Rudolph Foods:CP, T. Enginetics:AP, OMCC, F&P:CP, SGS Tool:SD, CP, CPC, AP, T. Bi-Con:CD, CP, CPC, HPC, AP, Island Aseptics:AP, T, OMCC, US Bridge:SD, CPC, HPC.

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

LCCC encountered a challenge due to a change in an employer partner's ability to hire a student for required work-based learning, as a result of the business environment. This was resolved as LCCC identified new/additional employers that had a need and interest in participating in the program, while maintaining the partnership with the original employer for future opportunity.

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

OTN has more than 290 employer partners; 26 were added in Q9. New partners and existing employer partners made new commitments: 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; participating on OMCC.

**Comments:**

Dayton Progress will start SCC's Accelerate MFG graduates at an advanced pay level with review every 3 months. Dysinger Inc. participated in a MFG video. ZSC created welding certification for Detroit Diesel. CSTCC employers provided input on the Machine Operator Apprenticeship-like program to be offered in 2017. LCC's Welding Newsletter keeps employer partners engaged. LCCC hosted MFG Leaders Roundtable; 22 employers attended. OCC works with OhioMeansJobs to explore training options for Dana Corporation. RSC worked with Proctor and Gamble to review their Electrical training program. Employer partners also played key roles during Manufacturing Month.

**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 collaboration creates a positive impact statewide. RSC provides technical assistance to OTN schools interested in launching/expanding registered apprenticeship programs. Having received DOL recognition as a Registered Sponsor of Apprenticeship, RSC helped LCCC prepare a sponsorship application which was submitted in November. An OTN partnership between LCCC and CCC is creating talent solutions in Northeast Ohio via the proposed launch of a Registered Apprenticeship program in Medina County with both schools partnering to offer instruction. LCCC/CCC collaboration was further enhanced via the OTN Safety Initiative. CCC has expanded degree options for the Environmental Health Safety Technology degree program and is partnering with LCCC in the launch of LCCC's Occupational Safety program by helping with curriculum development, faculty training, outreach materials and sharing contacts to expand the regional safety committee participation. As a result of Ohio TechNet participation, two SCC divisions—Workforce Development and Sinclair Academia—which have traditionally worked as separate entities, have come together organizationally and functionally to offer competency-based programs to Advanced Manufacturing students. As a direct result of this collaborative effort, a new ATS degree was created to support the goals of TAA-certified students interested in pursuing a combination of noncredit Workforce Development courses and traditional academic ones. The newly launched curriculum allows any student to pursue courses from Workforce Development's Industrial Maintenance program, and academic courses in HVAC and general education, leading to an Associate of Technical Studies degree not previously offered at the college. Competency based courses launched at SCC are accelerating student completion! In Q9, 4 students completed courses in less than one semester, doubling the number of credit hours earned toward their degrees during that semester.

**How many programs are you planning to offer?**

5

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

4

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**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](http://www.ohiotech.net) is also a resource.

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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 Agenga

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.

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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 OACE conference which targets career technical colleges.

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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.

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**Activity ID:** 4

**Status:** Ongoing

**Activity Type:** Activity

**Project Goal:** 2.3 Strengthen Employr 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.

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**Activity ID:** 5

**Status:** Ongoing

**Activity Type:** Activity

**Project Goal:** 2.4 Online Learning

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**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.

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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.

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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.

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**Activity ID:** 8

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**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.

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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.

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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 CCCC.

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.

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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. CCCC, 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

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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.

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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.

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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

**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.

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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.

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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.

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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.

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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.

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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.

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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.

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**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

**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.

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**Deliverable ID:** 9

**Status:** Ongoing

**Deliverable Type:** Deliverable

**Project Goal:** 9 Comparative Analysis

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**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.

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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.

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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.

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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.

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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

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**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.

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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

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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.

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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.

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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

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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.

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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.

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**E. Status of Progress and Implementation Measures**

No strategies recorded

## F. Key Issues and Technical Assistance Needs

Title	Description
Placement/Employment Tracking	Placement and employment tracking remain challenging, as many adult students do not take full advantage of career resources. Also, challenges persist in the collection of employment/wage data directly from students. Navigators share strategies to address this issue.
Targeted Outreach	OTN colleges have experienced difficulty in targeting adult students with mechanical aptitude and interest in advanced manufacturing, despite high-demand and family-supporting wages. Innovations with employer partnerships and a Manufacturing Image Campaign are sample solutions underway.
Dual Enrollment for Safety	Within the new program for safety professionals being created, the goal is to offer training in a manner that will allow for achievement of both academic credentials, and OSHA recognized credentials. This requires a partnership with an OSHA Education Center. OTN has experienced challenges with achieving this goal. New strategies are in development.

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

### Best Practices and Promising New Strategies

#### 1 Employer Partnership

RSC collaborated with a local employer partner during the development of new industrial maintenance for food manufacturing training. Training was piloted as noncredit coursework, and Lakeview Farms employees participated as an avenue to offer feedback. The positive feedback of employees validated this course content, which is being translated from 16 hours of noncredit coursework to a one-hour credit course as a result.

#### 2 Expansion of Apprenticeships

Collaboration of educational and industry partners continues to be impactful. Automation Tool and Die is leading an effort to offer Tool and Die training through LCCC and CCC in Medina County. This effort involves additional manufacturing companies that have an interest in Tool and Die training in Medina County. Automation Tool and Die also provided support for LCCC's application to become a DOL-recognized sponsor for Tool and Die.



### **3 Braided Funding**

SSC's Machining Lab was toured during OTN's Q9 in-person meeting. This lab was developed using braided funding from DOL, the State of Ohio, Ariel and Timken. DOL contributed \$524,288 and \$321,585 were leveraged through other sources. Equipment has allowed SSC to expand training capabilities in advanced techniques desired by manufacturing companies. The lab is currently in use around the clock due to industry partnerships.

### **4 Credential Articulation**

SCC and OCC implemented procedures to award certifications and credit. To date, 8 Workforce Development students in the SkillsTrac Industrial Maintenance program at SCC have been awarded up to 10 academic credits each toward an AAS degree. Staff at OCC is now able to identify participants who may be eligible for certificates, but have not applied to receive these. This changed the way information is captured internally and reported to the grant, and may impact state reporting as well.

### **5 Industry Responsiveness**

Columbus State responded to feedback from industry and community partners to reduce the duration of their Certified Production Technician training program. Partners expressed concern as retention declines the longer training lasts. As a result, training was reduced from 10 weeks to 6. Topics covered are now more focused on Manufacturing Skill Standards Council learning outcomes.

## **Success Stories**

### **1 CBE Impacts Incumbent Worker**

Seeking advancement with his current employer, D enrolled in 2 Accelerate MFG competency-based courses which afforded the flexibility to accelerate completion while working full-time as he pursued a CNC Technology certificate at SCC. D tested out of sections where he had competency, spending the majority of his time learning new material. He finished his first two courses in 8 weeks, enabling him to enroll in a third Accelerate MFG course without having to wait for another semester to begin.

### **2 Contextualization**

CSTCC Tutoring services coupled with Adaptive Learning/ALEKS and Contextualization of Math Yields Results for Welding Program students with 46% successfully completing the Math final exam. CTSCC completion rate for traditional Academic Foundation Math is only 19%. Mr. B utilized these tutoring services. Commitment and eagerness to learn resulted in passing the final exam in Math with a high A grade. Mr. B now plans to continue pursuing additional Welding credentials.

### **3 Training=Wage Increases**

During Z's first semester at LCC, he transitioned from an \$8.20/hr job to a \$12/hr fabricator position. B worked 2 part time jobs when he entered LCC's Industrial Welding Program. He successfully completed 4 Academic Credentials with straight A's and now works as a welder earning \$26.00/hr. J worked as a \$15/hr welder when he entered LCC's Industrial Welding Program in Spring, 2016. He completed 4 Academic Credentials with straight A's and is currently earning

\$18.00/hr with his new employer.

#### **4 TAA-Certified Worker Placement**

TAA certified workers were referred to fast-track training at LCCC by the local OhioMeansJobs office. Six students from LCCC's Right Skills Now machining training program were TAA-certified. All students completed classroom and lab training; two are currently completing the required work-based learning component and 4 received full-time employment as a result of training.

#### **5 Supporting Business Innovation**

An instructor at RSC facilitated the process of bringing an invention idea of a local small business owner to fruition. Using equipment and supplies purchased with OTN funding, the instructor was able to produce working drawings and a 3D model of the invention. The business owner took the prototype to the PACK EXPO/Pharma EXPO held in Chicago on 12/6/16 where he spoke with manufacturers about mass production. The 3D model was essential to the presentation.

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

OTN aligns strongly to Ohio's workforce and student success agenda. Strong partnerships with state and manufacturing leaders offer ways to sustain strategies which expand options for accelerated skills training that prepare workers for in-demand, advanced manufacturing careers. Leveraging OTN's role as a consortium of institutions within, and working in partnership with ODHE, is recognized as key to sustaining and scaling high impact strategies. One example is OTN's integration of industry recognized credentials in academic programs of study, which has led to increased NIMS and AWS attainment among participants and faculty; OTN is working with ODHE to align PLA to these credentials.