

Advanced Manufacturing and Mechatronics Quality Consortium

Bossier Parish Community College

Round Three TAACCCT Grant

Catalog of Products

Prepared by:



August 2017

Introduction

The following document catalogs the curricular resources and supporting documents developed by Bossier Parish Community College (BPCC) as part of the Advanced Manufacturing and Mechatronics Quality Consortium (AMMQC). This work was funded through a Trade Adjustment Assistance Community College and Career Training (TAACCCT) grant awarded by the U.S. Department of Labor to Mount Wachusett Community College (Massachusetts), which served as the lead institution.

The consortium's goal was to transform educational delivery methods and accelerate credential attainment in the advanced manufacturing fields of Mechatronics and Quality career pathways. The AMMQC served more than 1,720 TAA-eligible workers, veterans, and other individuals in Louisiana, Massachusetts, Ohio, and Tennessee. Each college brought to the consortium a unique expertise in the mechatronics and quality fields that were leveraged to create and implement stacked and latticed credentials that were shared across all four colleges. Mount Wachusett Community College (Massachusetts), the lead institution, has expertise in quality and metrology; Bossier Parish Community College (Louisiana) has expertise in process control mechatronics; North Central State College (Ohio) has expertise in electrical mechatronics, and Southwest Tennessee Community College (Tennessee) has expertise in industrial mechatronics. Together all four colleges implemented an entry-level program that included a common assessment process for assessing students' advanced manufacturing aptitude using Standard Timing Model technology and Work Keys enabled tools that align with the National Career Readiness Certificate that was adapted to meet the unique needs of each region. The project's intent was that all participants exit with an NCRC credential and one or more industry-recognized certifications that can be stacked and latticed for greater skill attainment and employment flexibility.

The products included in this catalog were developed by BPCC. These resources were produced with federal grant funds and reviewed for content, overall quality and completeness by the consortium's Third-Party Review contractor, PPM Associates. The catalog is organized by product type where each entry includes the product title, a brief description of the contents and a URL link to the location of the resource on the Department of Labor's [Skills Commons](#) Web site.

Table of Contents

LEARNING RESOURCES	4
Advanced Manufacturing and Mechatronics Curriculum & MOOCs	4
Automation and Controls Curriculum	4
Industrial Readiness	4
Online Simulation Software	4
 PROGRAM SUPPORT MATERIALS	5
Advisory Board Meetings Minutes	5
AMMQC Curriculum Evaluation Report	5
Articulation Agreement	5
Bossier Parish Community College Advanced Manufacturing Program	5
Career Fair and Employer Survey	5
Employer Engagement Opportunities	6
Intake Form for Participants	6
AMMQC Manufacturing, Mechatronics & Quality Career Pathways Graphics	6
Outreach Materials	6
Resume Cafe Materials	6
Student Support Services for Employment	6

LEARNING RESOURCES

Advanced Manufacturing and Mechatronics Curriculum & MOOCs

<https://www.skillscommons.org/handle/taaccct/11114>

This product contains syllabi, final exams, a Manufacturing Skills Standards Council Certified Production Technician credential and the consortium's proposal to the state Board of Regents to authorize and implement Advanced Manufacturing and Mechatronics programs of study. As a supplemental resource, it also includes Massive Open Online Course content with video-based learning modules and instructional materials that further inform potential and current students about these programs of study. This product package includes content as a CourseSites LMS and the standard IMSCC format.

Automation and Controls Curriculum

<https://www.skillscommons.org/handle/taaccct/11419>

This product contains six syllabi for Automation and Controls courses developed by the college.

Industrial Readiness

<https://www.skillscommons.org/handle/taaccct/11420>

This product contains outreach materials, a syllabus and a list of training modules for Industrial Readiness that the college offers to employers for their employees.

AMMQC Mechatronic Online Simulation Software Overview

<https://www.skillscommons.org/handle/taaccct/11097>

This product is a PowerPoint presentation on the online simulation software used in the final course of the college's Industrial Technology Automation and Controls and Advanced Manufacturing AAS degree programs. The software is copyrighted by PetroEd but can be hosted for a yearly fee. If you are interested in implementing the software at your campus, you can find additional information regarding this program on the PetroEd Web site: <https://www.petroed.com/?v=7516fd43adaa>.

PROGRAM SUPPORT MATERIALS

Advisory Board Meetings Minutes

<https://www.skillscommons.org/handle/taaccct/10848>

This product contains the minutes from four meetings of the college's Industrial Technology Advisory Board meetings in spring and fall 2014, fall 2015, and fall 2016.

AMMQC Curriculum Evaluation Report

<https://www.skillscommons.org/handle/taaccct/11082>

This report is an evaluation of the Advanced Manufacturing Mechatronics Quality Consortium curriculum by an impartial 3rd party evaluator to establish whether the members institutions' curricula meets USDOL grant guidelines.

Articulation Agreement

<https://www.skillscommons.org/handle/taaccct/10849>

This product is an agreement between the college and a four-year institution that enables students to apply credits earned towards a B.S. degree. Specifically, the agreement between BPCC and Northwestern State University awards students completing the C4M certification at BPCC seven credits toward the Bachelor of Science in Engineering Technology degree at NSU.

Bossier Parish Community College Advanced Manufacturing Program

<https://www.skillscommons.org/handle/taaccct/11096>

This product is a PowerPoint presentation on the college's Advanced Manufacturing program and the framework of the grant.

Career Fair and Employer Survey

<https://www.skillscommons.org/handle/taaccct/10850>

This product contains outreach materials for campus career fairs; materials for employer participation in such events; and a survey to get employer feedback on the activity and their level of interest in continuing participation in such events.

Employer Engagement Opportunities

<https://www.skillscommons.org/handle/taaccct/11084>

These materials illustrate the various ways that employers can participate and support the college's Advanced Manufacturing and Mechatronics programs.

Intake Form for Participants

<https://www.skillscommons.org/handle/taaccct/11080>

This form is used to gather information about grant participants in order to help them receive appropriate services. It is also used to fulfill USDOL data requirements for grant recipients.

Manufacturing, Mechatronics & Quality Career Pathways Graphics

<https://www.skillscommons.org/handle/taaccct/11079>

This graphic depicts the career pathway options for students in the college's Manufacturing, Mechatronics and Quality programs. It correlates academic credentials with career opportunities.

Outreach Materials

<https://www.skillscommons.org/handle/taaccct/10847>

This product contains an array of outreach materials--brochures, print and TV ads, flyer and radio spots-- to inform the public about the Advanced Trade Skills Program. In addition, the outreach materials focus on recruiting students into for-credit Industrial Technology courses and the non-credit Industrial Readiness Training program.

Resume Cafe Materials

<https://www.skillscommons.org/handle/taaccct/11081>

This product contains flyers, registration and feedback forms for the Resume Cafe session held each semester for students enrolled in the college's Advanced Trade Skills Program.

Student Support Services for Employment

<https://www.skillscommons.org/handle/taaccct/11111>

This product contains flyers announcing events for students to interact with potential employers and resume books that contains resumes of graduating students available for employment.