Massachusetts Community Colleges

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Level 1 Entry Level Manufacturing Employee Program

Description

66-hour program covers basic skills need in an Entry Level manufacturing position. Materials covered include Entry Level math, basic blueprint reading, metrology, OSHA Safety and Work Readiness.

Follows Massachusetts' MACWIC Level 1 model. Students sit for MACWIC level 1 credentialing exam.

MACWIC (Manufacturing Advancement Center Workforce Innovation Collaborative)

Resources

DOCX | 43 KB | DOWNLOAD (HTTP://OERMACC.EDC.ORG/SITES/OERMACC.EDC.ORG/FILES/RESOURCES/LEVEL%201%20ENTRY%20LEVEL%20MANUFACTURING%20EMPLOYEE%20FLYER.DOCX)

Industry:
Advanced Manufacturing (/taxonomy/term/14)

Program Area:
Non credit certification or work force training (/taxonomy/term/40)

Type:
Program brochure/flyer (/type/program-brochureflyer)

Audience:
Instructor (/taxonomy/term/18)

Campus or Organization:
Berkshire Community College (/taxonomy/term/21)

BERKSHIRE COMMUNITY COLLEGE
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Level 1 Entry Level Manufacturing Employee Program

Non-Credit 66 hour program - 13-week program

Entry level Math 12 hours

Mathematics for Technicians I is designed to equip technicians with the math skills they are likely to need on a daily basis. Topics covered include arithmetic and algebra, types of numbers (whole numbers, fractions, and decimals), percentages, ratios and proportions, systems of measurement, geometry, and trigonometry.

Basic Blueprint Reading 12 hours

Blueprint Reading delivers skills-based curriculum through virtual activities. Students learn all aspects of reading and interpreting blueprints in engineering and industrial environments, including views, tolerances, cutting planes, thread dimensions, and welding symbols.

Metrology 16 hours

Students will be able to handle clean and maintain a variety of manufacturing measuring tools including micrometers, calipers, gage blocks, different varieties of gages and indicators. Participants will also learn inspection procedures and quality control.

Safety 10 hours

Students will complete a 10 hour course for **OSHA** standards in General Industry. Topics to be discussed will be Intro to OSHA, Flammable and Combustible Liquids,.Means of Egress, Machine Guarding, Fire Safety, Lockout-Tagout, Electrical, Walking Working Surfaces and other elective topics.

Work Readiness 16 hours

The Employability course was developed in conjunction with SkillsUSA. This course aims to prepare participants with the skills required to apply for, and succeed in their first job. The course covers job application topics such as setting career goals, résumé preparation and interview skills. It provides training on basic employment skills such as time management, teamwork, communication, conflict resolution, and more. The course includes online exercises as well as offline exercises for individual and group work.

Upon completion students will sit for the MACWIC Level 1 Credentialing Exam.

For more Information Contact Beth Lapierre 413-236-5251 elapierr@berkshirecc.edu

This work was developed by Berkshire Community College through the Massachusetts Community Colleges and Workforce Development Transformation Agenda (MCCWDTA) http://www.masscc.org/mccwdta/.

"This workforce solution is 100% funded by a grant awarded by the U.S. Department of Labor, Employment and Training Administration, TAACCCT grant agreement # TC-22505-11-60-A-25.The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. Massachusetts Community Colleges are equal opportunity employers. Adaptive equipment available upon request for persons with disabilities."

Lvl 1 MEP B.C.C.

SME Name

SME Email Address

SME Phone Number

Name of Material Reviewed

Syllabus, Course and/or Module Evaluation Rubric

1: Evident; 0: Not Evident; N/A = Not applicable

A. Syllabus

A1	Syllabus includes basic elements of the course (e.g., course title, credits, goals/objectives, learning outcomes, pre-requisites, course description)	0	1	N/A
A2	Course outcomes are clearly stated and aligned to occupational focus and industry standards.	0	1	N/A
A3	Course texts (required and optional) are listed on syllabus; supplementary materials and resources are provided if appropriate.	0	1	N/A
A4	Evidence of capstone assessment (licensure, industry certification, capstone project or TSA)	0	1	N/A
A5	Assessment methods, grading policies and scale, and/or other student measurement practices are described within the syllabus.	0	1	N/A
A6	The Course Outline/Schedule includes major topics, and activities.	0	1	N/A

Comments:

NO Syllabus

1: Evident; 0: Not Evident; N/A = Not applicable

B. Learner Objectives & Interaction

B1	The course learning objectives are measurable.	0	1	N/A
B2	Learning objectives are stated clearly and easily understood from the student's perspective.	0	1	N/A
B3	The learning objectives are appropriately designed for the level of the course.	0	1	N/A

Lvl MEP B.C.C.

Comments:

1: Evident; 0: Not Evident; N/A = Not applicable

C. Instructional Design				
C1	The course organization and design is clear, coherent, and structured in an appropriate way.	0	1	N/A
C2	Concepts and skills build logically and purposefully throughout the course, with transitions to support development and understanding from skill to skill.	0	1	N/A

Comments:

need more info

1: Evident; 0: Not Evident; N/A = Not applicable

D. Instructional Materials				
Specify which module or lab reviewed				
D1	The instuctional materials contribute to the achievement of the stated course objectives.	0	1	N/A
D2	The materials meet/reflect current industry practices and standards.	0	1	N/A
D3	The instructional materials are current.	0	1	N/A
D4	The learning activities and/or labs promote the achievement of the stated learning objectives.	0	1	N/A
D5	Learning activities and/or labs provide opportunities for interaction that support active learning.	0	1	N/A
D6	The module design organizes the course into stages of introduction, development, and assessment.	0	1	N/A
D7	The module includes learning objectives, activities, and all classroom materials for each session.	0	1	N/A

Comments:

no material

Lvl 1 EL MEP B.C.C.

1: Evident; 0: Not Evident; N/A = Not applicable				
E. Assessment & Measurement				
E1	The types of assessments selected measure the stated learning objectives and are consistent with module activities and resources.	0	1	N/A
E2	The assessment instruments selected are varied and appropriate to the student work being assessed.	0	1	N/A

Comments:

need more info

1: Evident; 0: Not Evident; N/A = Not applicable				
F. Innovative or Enhanced Strategies				
F1	Program/course/module reflects design or strategies that accelerate the time to completion.	0	1	N/A
	Program/course/module design or enhancements increase accessibility for lower-skilled students (e.g. those assessed at "pre-college" levels for English or math).	0	1	N/A
F2	Program/course/module design or enhancements are designed to improve retention and completion for adult learners. support the adult learner.	0	1	N/A
	TOTAL	6		

Is this program, course or module foundational, intermediate or advanced in terms of preparing students for employment in the specified industry? Please elaborate.

Yes, An excellent non-credit program to bring workforce up to speed, with current manufacturing technology

Overall Comments:

would need more info on classes & programs to examine