Machining Career Pathway

Training

Step 1: Basic Skills
(Traditional High Schools, ABLE Providers, WIN)

Step 1a: Basic Skills
(Job Shadowing, Tours, & Speakers)

Step 1b: Basic & Soft Skills, Safety, & Intro to Mfg
Mfg Readiness Pre-Apprenticeship Program
(ABLE & Adult CTCs)

Step 2: Advanced Machining
Two-Yr AS Degree (BC3/EGCC)
Co-Ops

Step 2a: Entry-level Machining
One-Yr Certificate Program
(Adult CTC Programs)
240 hr Work-based Learning

Step 2b: Advanced Machining
Complete 2a +
2nd Yr of AS (EGCC)
Co-Ops

Step 3: Experienced Machining
Work Experience and/or Employer-sponsored Training
On-the-Job Training/Classroom Training

Step 4 Management/Engineering/Operations + last Two Years of BS Program (GCC/KSUT/PSU/YSU)
Internships through Internship Clearinghouse

Outreach and Pipeline Development Activities, including: Oh-Penn Manufacturing Collaborative Career Pathway Ambassadors, Industry Needs You Web Site, Summer Manufacturing Institute, STEM Explore Program, etc.

Abbreviations:
ABLE – Adult Basic & Literacy Education, BC3 – Butler County Community College, CNC – Computer Numeric Controlled, CTCs – Career & Technical Centers, EGCC – Eastern Gateway Community College, GCC – Grove City College, PSU – Penn State Shenango, YSU – Youngstown State University

Updated 3.31.16