Problem Resolution Through Partnership

How one community tackled the skill gap issue

The Key Drivers of a Successful Manufacturing Operation



600,000 manufacturing jobs have gone unfilled during a prolonged period of high unemployment (Deloitte LLP)

- Why?
 - businesses cannot find workers with the basic math, science and technical competencies.
 - 67 percent of employers reported a serious or severe shortage of workers in key areas.
 - 2013 Global Manufacturing Competitiveness Index

Employer Reported Issues with Manpower

- 52 percent -- Inadequate problem-solving skills
- 43 percent -- lack of basic technical training
- 40 percent -- Inadequate basic employability skills (things like showing up to work on time)
- 36 percent -- Inadequate technology/computer skills
- 30 percent -- Inadequate math skills
- 29 percent -- Inadequate reading/writing/communications skills
- 12 percent -- Inability to work in a team environment

Employer response to hiring difficulties:

- Employees work overtime (65% of firms)
- Increase recruiting efforts (51%)
- Leave position vacant (49%)
- Hire less qualified applicant (44%)

Engineering Deficit



Currently, only two out of 10 pass our 7th Grade Math Test (100% increase over 2011)

• 2012



The Test

4. Draw a line between the decimal in the left column and the corresponding fraction in the right column.

.375	1 1/4
.250	3/4
1.25	4/10
1.5	5/8
.75	1/4
.625	1 1/2
1.0625	3/8
.4	1 1/16

7. 12" x 12" x 12" equals how many cubic inches?

- a. 1508
- b. 1728
 c. 1632
 d. 1748

5. Draw two lines in the box at right, one perpendicular to the other.

6. Draw two parallel lines in the box at right running from left to right and up about 45° .



9. What best describes the figure at right?

- a. Empty carton
 b. House
- c. Dice
- d. Square



10. What is the difference between a square and a rectangle?

3. Record the tape measurement readings below.



The Answer



Skills Gap Solution





Key Components

- Employer Engagement & Relationships
- Selection Process
- Student Support Services
- Industry Certifications



Program Results

- 25% increase in employer engagement
- 95% completion rate
- 82% employment rate
- 5% continued on with education at community/technical college

Secret Sauce

• Competitive process

= buy in from students

• Employer driven curriculum

= relevant essential skills

- Screening & employer involvement

 improved placement rates
- Student support/coaching

= key to student success

• Multiple pathways

= many different futures

Academy to Employment



- Competencies Match Job Requirements
- Reliable and Dedicated Graduates
- Connection to Apprenticeship Program

Academy to Apprenticeship



- Basic Skills to begin Apprenticeship
- Increase Knowledge and Skill Base
- On-the-Job Training

Conclusion

- Key points
 - 1) The impact of the skills gap is real, and it is substantial. The manufacturing industry is expected to have a shortage of 2 million workers in the U.S. over the next decade.
 - 2) The contributing factors a shortage of workers with adequate STEM skills, the impending onslaught of baby boomer retirements and the expected industry expansion-cannot be ignored.
 - 3) There isn't one specific solution to overcome the skills gap issue. Instead, a combination of strategies must be employed in concert to address current and future issues. Multiple stakeholders must collaborate to address the gaps.

Conclusion

- Actions required by manufacturing companies:
 - 1) Rethink their talent sourcing and recruiting strategies to attract new employees, improve candidate screening practices, define clear competency models and role-based skills requirement, invest in internal and external training and development.
 - 2) Engage with local Workforce Development Councils and eduation stakeholders.
 - Work within local communities to inform about the industry and its career options – mitigate negative perception of manufacturing.

Want to continue the conversation?

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