



Manufacturing workforce certifications: What's hot and how to help workers get them

Manufacturers that are currently seeking to locate a new facility in a community have a number of major considerations. To be sure, site selection, utilities, local business climate and incentives figure prominently in the decision. But more and more, the availability of an adequate workforce to man the new operation is key to the community's attractiveness and the locating facility's potential for success down the line.

Why? Today, recruiting and keeping skilled talent in manufacturing is a daunting challenge, because the sector suffers from a "skills gap:" mature manufacturing workers are retiring, and the numbers of younger workers necessary to fill the empty positions – workers with the proper skills to do the job in today's high-tech operations – have not kept up.

Compounding the skills gap is the perception among young people that manufacturing facilities are dark, dirty and dangerous rust-belt dungeons of days gone by. These individuals are unfortunately unaware of the fact that most forward-thinking manufacturing facilities are clean, bright, efficient workplaces that use some of the most cutting-edge technological advances available – and offer some of the best career opportunities around today for bright young people willing to work hard.

Whatever the nature of the manufacturing skills gap, as with all challenges there are remedies. One of these involves promoting the acquisition of certifications among a community's workforce. The more individuals who possess the certifications manufactur-

ers seek, the more attractive the community workforce is to an organization that's assessing that community as a potential home for a new facility.

Manufacturing certifications today.

What types of certifications are valuable to manufacturers today? Three of the most popular are those for set-up technicians, control technicians and multi-skilled maintenance technicians. Set-up technicians' responsibilities include setting up machines (and new jobs on those machines) so operators can initiate production cycles and ensure ongoing, efficient operation. Control technicians specialize in automated controls in process industries, and as automation continues to revolutionize manufacturing these individuals will continue to remain in high demand. Multi-skilled maintenance technicians – those who possess skill sets involving a number of maintenance disciplines – are in especially high demand these days; it has been popular in the recent past for manufacturers to invest heavily in engineers and financial personnel. Now they've had to recalibrate their thought process concerning the vital need for maintenance as it relates to efficiency, productivity and revenue.

Over the next decade, as 3.4 million manufacturing jobs become available, a skills gap could result in 2 million staying unfilled.

Source: Bloomberg Businessweek

The road to certification.

How does a community promote the pursuit of in-demand certifications so their workforce is attractive to potential incoming manufacturing employers? Building worker skills is best a multi-pronged endeavor. Encouraging the development of appropriate courses and curriculum at nearby vocational and technical schools is a great start. Working with local high schools and counselors to counter incorrect perceptions and promote opportunities in manufacturing is another valuable effort.



Encouraging manufacturers to offer blended learning programs is another strong way to widen the workforce potential. Blended learning programs start with well-defined assessment testing of individuals that is then reported on in detail. The resulting analyses look at skills gaps not only by individual but also value stream, facility and disciplines. Once specific insufficiencies are identified, a process-driven blended learning development plan can be outlined and implemented, with gate reviews, benchmarked milestones and deadlines that are designed with both the individual's and manufacturer's needs in mind.

Certified success.

There is no doubt that the manufacturing skills gap is a challenge to both employers seeking to locate a new facility, and communities looking to encourage manufacturing growth in their areas. The development of an attractive, appropriately-skilled workforce is a vital piece to the complex puzzle. However, with a little forethought and effort regarding the certifications that are most in demand today, both manufacturers and the communities they seek to call home can eventually enjoy success in the form of a highly productive facility and economic growth and prosperity in the area.

