

Assessment, Improvement, Measurement (AIM) Report: 03/13/2015**Reporting Years:** 2011-2016**Program:** Welding**Coordinator(s):** Karman Wheeler, Bobby Coffey**Program Quality and Student Success****External awards or other recognitions of students, faculty, and/or program.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Students			5 received \$500 scholarship from AWS. 22 certified from Kentucky Bridge and Structural Steel	36 students earned certification for the Kentucky Bridge and Structural Steel	
Faculty					
Program (include accreditation if applicable)					

Average actual time and credits to degree completion.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
General Education Credit Hours					
Technical Credit Hours					
Total Credit Hours					
Number of Graduates					
Average Actual Time to Degree					
Average Actual Credits to Degree					

Employer and student satisfaction.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Employer Satisfaction Survey Results		100% (3/3)	100% (4/4)	100% (8/8)	
Graduate/student satisfaction		100% (22/22) 2010-11 grad surveys	100% (21/21) 2011-12 grad survey	97.4% (38/39) 2012-13 grads	
Advisory Board/Employer Recommendations for Improvement					

Job placement data for program graduates.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Number of graduates		14 surveyed (2010-11 grads)	21 surveyed (2011-12 grads)	42 surveyed (2012-13 grads)	
Number of graduates gaining employment		11	18 employed; 16 in field	30 employed; 12 in field. 11 joined military.	
Percentage of graduates gaining employment		79%	86%; 76% in field.	71.4%; 29% in field.	
KY Unemployment Insurance job data		UI = 66%	UI= 76%	76% (n=25)	

Pass rates on licensure/certification exams (if applicable).

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Total # graduates attempting					
Total # passing on first attempt					
Total # passing after multiple attempts					
Pass rate of all attempting					

Productivity and Funding**Student measures.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Enrollment (Academic Year)					
Fall Enrollment		75 (Fall 2011)	73 (Fall 2012)	85 (Fall 2013)	
Credentials Conferred		8 AD, 3 dip, 110 certs (2011-12)	5 AD; 7 dip; 206 certs (2012-13)	5 AAS; 8 dip; 247 certs (2013-14)	
Credit hour production		449 (Fall 2011)	635 (Fall 2012)		

Student credit hour per instructional faculty FTE.

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Student credit hour per instructional faculty FTE.		189 (D); 88 (L) Fall 2011	240 (D); 125 (L) Fall 2012		

Extramural funding.

Source of Funding	2011-2012

No funding sources

Source of Funding	2012-2013
No funding sources	

Source of Funding	2013-2014
Hobart Fabco 85 gas shielded flux cored wire donated	\$150.00
8 Miller shop master 300 welders donated	\$12,800.00
3 tool chest donated	\$570.00
Stainless TIG filler rods donated	\$100.00
1 iron worker donated	\$4,500.00
3 x 3 x 3/16 sA500 steel structural square tubing donated	\$3,450.00
60 pieces of 14 gauge steel donated	\$700.00
Hobart .045 welding wire donated	\$410.00
K937-45 Control cable extension for Lincoln welder donated	\$200.00
Hobart pipemester 60 mild steel sticke electrode E6010 welding rods donated	\$130.00
Lincoln Electric MIG weldign wire gun donated	\$350.00
Lincoln Master MIG welding wire I-50 donated	\$400.00
1 air cleaner system donated	\$1,800.00

Source of Funding	2014-2015
Welding computer software	\$500.00
2 Miller Mig Welding machines	\$9,000.00
CNC Plasma cutting table	\$23,000.00
Dust collector system	\$1,500.00
2 Pipe tube notchers	\$14,000.00
Planishing hammer with anvils	\$1,800.00
Metal Shear, brake and roller	\$3,200.00
Metal donation	\$2,500.00

Source of Funding	2015-2016
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No funding sources

Comments (2012-2013)

Roles	Comments
Coordinator	
1. Strengths of the Program	A. Strong correlation with the welding industry who employ our students at BCTC. We receive positive feedback from the welding industry when hiring BCTC students. The placement rate for the welding students is continuously strong with all Spring 2012 graduates working by the end of May. B. Knowledgeable advisory committee who works closely with us to ensure our students are successful and getting the education that they need. C. We also participate in local ATC advisory committees to build strong relationships between BCTC and the secondary schools. D. We visit local ATC's and high schools to talk to teachers and their students regarding the opportunities that are available with further the students' education. We also have dual credit agreements with various ATC welding programs and industrial maintenance. E. We participate in local community and school tours throughout our buildings. Giving them demonstrations and promoting BCTC. F. Our enrollment remains strong with growing interest. G. Host bi-monthly American Welding Society meetings that involve students, faculty, local industry, local business representatives and manufacturing representatives to build relationships and stay current on the changing technology. H. We serve as host and facilitator for the regional and local Skills USA. I. We offer the Kentucky Department of Transportation Welding Certification in SMAW and GMAW. Our students have 100% pass rate upon successful completion of the welding program. J. We work collaboratively with the IMT program to ensure that we offer classes that meets the needs of the IMT students. K. Over the past year we have expanded the program with new equipment to offer more opportunities for our students.
2. Items Requiring Continued Attention	In order to maintain a successful comprehensive program, there are some areas of improvement one of those being: A. With the increase in the cost of supplies the current supply budget does not meet the needs to successfully operate the program to its fullest potential. B. We need to increase the number of work stations to meet the growing demand of the welding program. C. Additional money needs to be budgeted in order to maintain, repair and service equipment that is inoperable. D. Placement numbers reported by IR need to be investigated to resolve discrepancies resulting from non program members receiving welding credentials, and job placement information from surveys. E. Currently working with AD on offering more weekend and evening classes to meet the needs of students and the community.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	We were able to hire a recent BCTC graduate to fulfill the vacancy at Leestown. With his expertise of the program he is looking at innovative ways market the welding program and increase class size.
Assistant Dean	Strong demand for this program at both locations. I agree with the coordinator's comments. Space, equipment, and operating budget will be a concern as the new outlook for this program attempts to accommodate more students and expand program offerings.
Dean	Exciting new changes are taking place with the welding programs at Danville and Lexington with the two faculty working together and working with the industrial maintenance faculty as well to accommodate all students needing welding as part of their program of study. There are good numbers of students, strong advisory support and good job opportunities. I agree with the coordinator's comments.
Vice President	

Comments (2013-2014)

Roles	Comments
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Coordinator	
1. Strengths of the Program	A. The welding technology program has a strong collaboration with local companies in the welding Industry that hires our students for BCTC. We received positive feedback from the welding Industry regarding the skills of our welding technology students. The placement rates of our students have continuously remained strong with our students that will graduate in December and the previous semester. B. Knowledgeable advisory committee who works closely with us to ensure that our students are successful and are receiving the education to meet industry standards. They also are very helpful in assisting us to ensure the equipment is current with the welding trends, industry needs and that the curriculum is accurate. C. The welding equipment in the labs are modern and kept up-to-date to maintain safety for our students to be successful in the welding industry. Classrooms/ labs are kept clean, safe and well organized. Therefore students are learning in a productive and safe learning environment. D. We also participate in local ATC advisory committees to build relationships between BCTC and the participating secondary school. As well as make recruitment visits to ATC schools to talk with the teachers and students to share information about BCTC and our welding program. We also have dual credit agreements and articulation with various ATC welding programs and industrial maintenance programs. We also participate in local community and school tours throughout our building as well as provide demonstrations to visitors. E. Our enrollment remains strong and the interest is growing. Most of our classes maintain a healthy enrollment and we receive countless inquiries for future prospective students. F. Host bi-monthly meetings for the American Welding Society to involve our students, faculty, local industry and local business representatives and manufacturing representatives to build relationships and stay current with changes in technology. Instructor also holds a vice president seat in this organization as well as maintains an AWS certification for a Certified Welding Educator. H. We offer the Kentucky Department of Transportation Welding Certification in SMAW and GMAW for our students. This past year we had 22 students with a 100% pass rate upon completing of the welding program. I. We continue to offer classes that support IMT program. We also work collaborative with IMT to ensure that we offer classes that meet the needs of IMT students for their educational plans. J. Over the past year we have expanded the program with new equipment to offer more opportunities for our students.
2. Items Requiring Continued Attention	A. With the increase in the cost of supplies the current supply budget does not meet the needs to successfully operate the program to its fullest potential. B. We need to increase the number of work stations to meet the growing demand of the welding program as well as replace some old equipment that are outdated. Also purchase 2 spool guns so students can get the opportunity to learn aluminum welding. Also purchase safety videos to better enhance safety instruction C. Additional money needs to be budgeted in order to maintain, repair and service equipment that is inoperable. D. Currently working with AD on offering more weekends and evening classes to meet the needs of students and the community.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	The past year the welding program was able to add some addition equipment with purchases from Perkins and non-recurring funds was added to help with the increase of supplies and repair some equipment. Because of this additional supplies and equipment we could safely add more students to our classes.
Assistant Dean	I agree with the coordinator's comments. The welding program continues strong student enrollment and industrial support. Additional funding, space, and qualified instructors will be necessary to expand the offerings and accommodate growing student demand.
Dean	The welding program is in demand for welders and for industrial maintenance. It is hoped that BCTC may offer an artistic component to the Leestown site. Excellent, enthusiastic, knowledgeable faculty with strong student enrollment and 100 % pass rates on welding certifications.
Vice President	I agree with Assistant Dean and Dean comments. This is one of the strongest programs at the college, in Danville and now in Lexington! Two strong faculty are at the core of this success and are to be congratulated.

Comments (2014-2015)

Roles	Comments
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Coordinator	
1. Strengths of the Program	<p>A. The welding technology program has a strong partnership with local companies in the Welding Industry that hires our BCTC students. We received positive feedback from the Welding Industry regarding the skills of our Welding Technology students. The placement rates of our graduating students has remained strong. B. The program has a knowledgeable advisory committee who works closely with us to ensure that our students are successful and are receiving the certification and training needed to meet industry standards. They also are very helpful in assisting us to ensure the equipment is current with the welding trends, industry needs and that the curriculum is accurate. The allotted Perkins and nonrecurring funds we have received has made it possible for us to maintain with the current trends. Most of the welding equipment in the labs are modern and kept up-to-date to maintain safety for our students to be successful in the welding industry. Classrooms/ labs are kept clean, safe and well organized. Therefore students are learning in a productive and safe learning environment. C. We participate in local ATC advisory committees to build relationships between BCTC and the participating secondary school. We make recruitment visits to ATC schools to talk with the teachers and students to share information about BCTC and our welding program. We also have dual credit agreements and articulation with various ATC welding programs and industrial maintenance programs. We participate in local community and school tours throughout our building, as well as, provide demonstrations to visitors and prospective students. D. Our enrollment remains strong and the interest is growing. Most of our classes maintain a healthy enrollment and we receive countless inquiries for future prospective students daily. One of the main enquiries about the program is that students want to earn a credential and become certified. We offer the Kentucky Department of Transportation Welding Certification in SMAW and GMAW for our students. This past year we had 36 students take the certification and we had a 100% pass rate upon completing of the welding program. E. The faculty works closely with business and industry representatives and manufacturing representatives to build relationships and stay current with changes in technology and to have a better understanding of what skills students need in the workforce. The faculty members also hold current welding certifications and/or AWS Certified Welding Educator to meet Industry needs. F. We continue to offer classes that support IMT program. We work collaboratively with IMT program to ensure that we offer classes that meet the needs of IMT students for their educational plans. G. Over the past year we have expanded the program with new equipment to offer more opportunities for our students. We are also expanding the offering of welding classes at our Winchester Campus by using the welding lab at the Winchester Area Technology Center.</p>
2. Items Requiring Continued Attention	<p>A. With the increase in the cost of supplies, the current supply budget does not meet the needs to successfully operate the program to its fullest potential. Additional money needs to be allotted in order to maintain, repair and service equipment that is inoperable. B. Leestown Campus needs to have some old equipment replaced. The equipment is old and outdated and some have various safety issues and is unsafe for students to use. At a very minimal cost, we need to expand a few areas at both locations to offer more workstations. Safety videos need to be purchased to better enhance safety instruction. C. Currently working with the AD to offer more evening classes to meet the needs of students and the community at the Winchester Campus.</p>
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	<p>The past year the welding program was able to add addition equipment with purchases from Perkins and non-recurring funds to increase the availability of equipment that students are trained to use.</p>
Assistant Dean	<p>The Welding program has high scores for Student Satisfaction (97%) and Employer Satisfaction for technical classes/proficiency (100%) for this reporting period. The reported Job placement figures are stable. The Welding program continues to have strong enrollment and a high number of credentials issued for the reporting period. The program issued 247 certificates in 2014-15 which is up from the 206 last year. The welding program continues strong industrial and advisory committee support. Additional funding, space, and qualified instructors will be necessary to expand the offerings and accommodate growing student demand. Program coordinator needs to request Perkins Grant funds to replace older non-working equipment.</p>

Dean	Agree with comments from coordinator and AD. Two strong and in demand programs: Danville and Leestown. Faculty excel. Dedicated and hard working.
Vice President	I concur with Assistant Dean and Dean comments. The Danville program remains strong, and the Leestown Program, under Shawn's leadership, is becoming stronger each year.\. Like with all other technical programs, I encourage the program to consider additional apprenticeship and other industry sponsorship opportunities.
