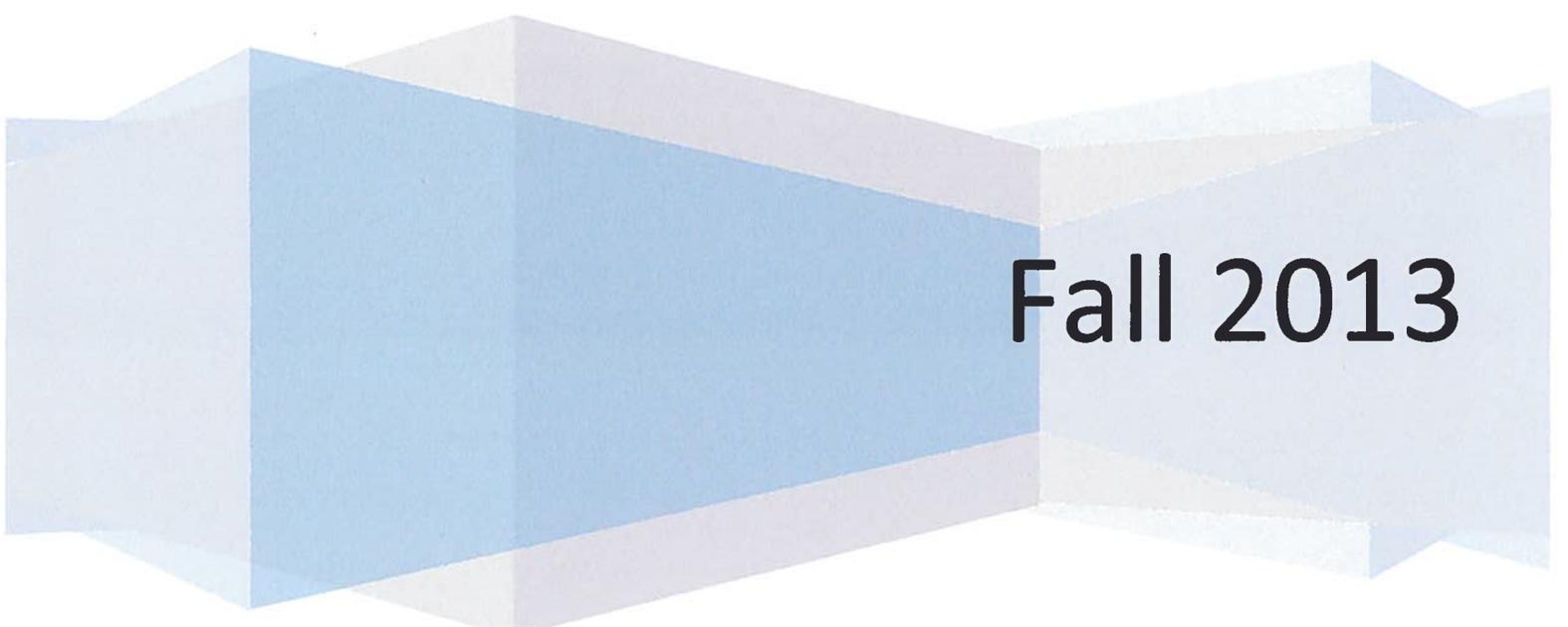


Southeast Technical Institute

New Program Application

Plumbing

Diploma



Fall 2013

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Plumbing – Diploma

Executive Summary

The plumbing trades are an integral component of the construction and housing industries. Plumbers support the infrastructure necessary for economic development. In addition, plumbers support residential and commercial users for remodeling, emergencies and service calls.

Southeast Technical Institute (STI) through a Plumbing Diploma program would provide regional employers with graduates capable of working in industry immediately. STI currently has a number of strong trade programs and we believe that the addition of a Plumbing Diploma would provide students additional choices.

Plumbers may work on residential and commercial projects. They may do new installations as well as service calls to repair existing systems.

Identification and Description of the Program

STI is proposing a one-year Plumbing Diploma program. The Plumbing program is designed to provide graduates with the skill to become a successful plumber and to establish hours towards their licensure requirements. According to South Dakota Administrative Rule 20:53:03:04, graduates of the program may apply for a plumber's examination after 3 years in which they had 5,700 hours experience as a plumber's apprentice.

The program will cover plumbing codes, plumbing theory and will have significant hands on laboratory experiences. The curriculum will consist of blueprint reading, materials planning and utilization, tool usage and pipe joining methods.

The plumbing industry relates to the installation or repair of piping systems, plumbing fixtures and equipment including water heaters, appliances, and sprinkler systems. Plumbers are able to work in commercial settings or residential settings.

Objectives and Purpose of the Program

The primary objective of this program is to provide qualified personnel for all segments of the plumbing industry. This objective will be met by providing an education that aids the graduate towards licensure examination.

The plumbing industry is made up of professionals serving in many different roles. The Sioux Falls region is expecting approximately 60% of their senior plumbers to retire in the next five years. Along with this, there is a constant demand for plumbers in the region to serve these roles.

The objectives of the program include:

- Measure, cut, thread, or bend pipe to required angle, using hand or power tools or machines such as pipe cutters, pipe-threading machines, or pipe-bending machines
- Study building plans and inspect structures to assess material and equipment needs, to establish the sequence of pipe installations, and to plan installation around obstructions such as electrical wiring
- Locate and mark the position of pipe installations, connections, passage holes, or fixtures in structures, using measuring instruments such as rulers or levels
- Fill pipes or plumbing fixtures with water or air and observe pressure gauges to detect and locate leaks
- Assemble pipe sections, tubing, or fittings, using couplings, clamps, screws, bolts, cement, plastic solvent, caulking, or soldering, brazing, or welding equipment
- Install pipe assemblies, fittings, valves, appliances such as dishwashers or water heaters, or fixtures such as sinks or toilets, using hand or power tools
- Direct helpers engaged in pipe cutting, preassembly, or installation of plumbing systems or components
- Cut openings in structures to accommodate pipes or pipe fittings, using hand or power tools
- Review blueprints, building codes, or specifications to determine work details or procedures
- Install underground storm, sanitary, or water piping systems, extending piping as needed to connect fixtures and plumbing

Methods of Attaining the Objectives of the Program

Upon receipt of the State Board of Education approval, Southeast Technical Institute will accept up to 24 students beginning in the Fall Semester of 2013. The marketing campaign to recruit students will include a comprehensive media mix.

The one-year Plumbing Diploma program will consist of classes in Plumbing Theory, Plumbing Processes, Mathematics, Computers and Communications. The students will receive an extensive amount of laboratory time in plumbing to develop their skill and prepare them for an apprenticeship.

The Plumbing Program will be offered traditionally, during the day, at STI.

During the development of the Plumbing program, STI has worked with several individuals in the plumbing and construction industries. STI will develop a plumbing advisory board to help assist in the refinement of curriculum.

Description of Labor Market Demands of the United States, State of South Dakota, Student Needs, and Industry Support

National Data

According to the 2010 – 2020 National Bureau of Labor Statistics, there is an expected increase of 25.6% or 107,600 employees for Plumbers, Pipefitters and Steamfitters. There is also an increase of 228,800 positions during this period due to growth and replacements. See Table Below.

National Bureau of Labor Statistics 2010 – 2020			
Position	Employees 2010	Employees 2020	2010 – 2020 %
Plumbers, Pipefitters and Steamfitters	419,900	527,500	25.6%

State/Regional Data

According to the 2010 – 2020 South Dakota Occupational Employment Projections, there is an expected increase of 10% for Plumbers, Pipefitters and Steamfitters. This is an increase of 120 positions during this period, with 36 average annual openings. In conversations with members from the Plumbing community, there is a concern that approximately 60% of their plumbers will be retiring in the next five years. These data show that current regional positions are exceeding projections. See Table Below.

SD Bureau of Labor Statistics 2010 – 2020			
Position	Employees 2010	Employees 2020	2010 – 2020 %
Plumbers, Pipefitters and Steamfitters	1,195	1,315	10%

Student Needs

This program will provide students with an opportunity to enter an expanding industry that has many different entry points, areas for growth, and training that meets industry growth and needs. The program provides a background in theory, processes, and general education.

Industry support

STI has met with leaders of several plumbing contracting companies in Sioux Falls and has received a strong level of support, indicated by the letters of support attached in Appendix C.

Population to be Served by the Program

STI will recruit students from a variety of backgrounds, including both traditional and non-traditional. It is anticipated that this program will attract students directly out of high school in addition to those who are unemployed, underemployed and those wanting to make a career change.

Program Capacity

Starting Semester	Delivery Format	Capacity
Fall 2013	Traditional Day	24

Projected Three-Year Budget Plan

BUDGET PROJECTIONS			
Year	2013-2014	2014-2015	2015-2016
Salaries/Benefits (2 FTE)	\$112,845.00	\$116,230.00	\$119,717.00
Staff Travel	\$1,500.00	\$1,500.00	\$1,500.00
Instructional Materials	\$90,000.00	\$50,000.00	\$50,000.00
Capital Equipment	\$100,000.00	\$50,000.00	\$50,000.00
Software/Books/Fees	\$4,000.00	\$2,500.00	\$2,500.00
Totals	\$308,345.00	\$220,230.00	\$223,717.00

Salaries/Benefits/FTE/Equipment

The Plumbing Program will need one full time instructor. This program will hire an additional full time lab specialist. STI will renovate existing lab space for the plumbing program and procure supplies and equipment for the program.

Program Competencies and entry and exit points of sub-occupations

The Plumbing Association provides three main levels for licensed plumbing positions. The first level is the plumber's apprentice. STI students are encouraged to apply for their plumber's apprentice license if they are working for a plumber during their education. After completion of the STI Plumbing Diploma, the student will need three years and 5,700 hours experience as a plumber's apprentice to apply for a plumber's license. Upon completion of the plumber's license, a plumber may apply for a plumbing contractor's license if they can show evidence of six years' experience as a plumbing contractor, plumber or plumber's apprentice with at least two of those years (at 1900 hours per year) as a plumbing contractor or plumber.

Entry Point: Fall 2013

Exit Point: Spring 2014; Students will graduate with a one-year diploma.

Statement of non-duplication

Southeast Technical Institute understands there are no other Plumbing Diploma programs offered by other South Dakota Technical Institutes.

Curriculum design and research

Southeast Technical Institute designed a tentative curriculum after an extensive review consisting of curriculum searches, academic review of competencies, and through discussion with industry professionals. The curriculum is shown in Appendix B.

Wage Factor

Data from the South Dakota Department of Labor Occupational Wage Estimates through June 2012 positions the average hourly wage from \$16.87 to \$19.16. See Table Below:

South Dakota Department of Labor Occupational Wage Estimates June 2012 Data				Percentile				
Occupation	Area	Workers	Avg Wage	10 th	25 th	50 th	75 th	90 th
Plumbers, Pipefitters and Steamfitters Hourly Wage	State	1,040	\$18.66	\$12.76	\$14.42	\$17.86	\$21.93	\$26.61
Plumbers, Pipefitters and Steamfitters Hourly Wage	Sioux Falls	480	\$19.16	\$12.86	\$14.43	\$18.54	\$22.42	\$27.87
Plumbers, Pipefitters and Steamfitters Hourly Wage	East	Not available	\$16.87	\$12.58	\$13.92	\$16.51	\$19.54	\$22.18

Data from the National Department of Labor positions the 2011 median annual wage at \$47,750.00 with a range from \$28,310.00 to \$82,310.00 for the 10th to 90th percentile. The average annual wage for 2011 was \$51,830.00. See Table Below:

National Department of Labor Data					
Occupation	Employees 2011	2011 10 th Percentile	2011 50 th Percentile	2011 90 th Percentile	2011 Mean
Plumbers, Pipefitters and Steamfitters Hourly Wage	349,320	\$13.61	\$22.96	\$39.57	\$24.92
Plumbers, Pipefitters and Steamfitters Annual Wage	349,320	\$28,310.00	\$47,750.00	\$82,310.00	\$51,830.00

CIP Code

Plumbing: 46.0503: A program that prepares individuals to practice as licensed plumbers by applying technical knowledge and skills to lay out, assemble, install, and maintain piping fixtures and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, sprinkling, and industrial processing systems in home and business environments. Includes instruction in source determination, water distribution, waste removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, welding and soldering, plumbing inspection, and applicable codes and standards.

Appendix A – SD and US Dept of Labor Information

South Dakota Department of Labor Data

South Dakota Occupational Employment Projections 2010 - 2020						
SOC* Code	Occupational Title	2010 Workers	2020 Workers	Numeric Change	Percent Change	Average Annual Demand for Workers
000000	Total, All Occupations	462,975	504,120	41145	8.9%	15,082
472152	Plumbers, Pipefitters, and Steamfitters	1,195	1,315	120	10.0%	36

South Dakota Occupational Wage Estimates Wages Updated to Quarter Ending June 2012

Area	SOCCode	Occupation	Workers	AvgWage	Percentile				
					10th	25th	50th	75th	90th
Statewide	'47-2152	Plumbers Pipefitters and Steamfitters	1,040	\$18.66	\$12.76	\$14.42	\$17.86	\$21.93	\$26.61
Sioux Falls MSA	'47-2152	Plumbers Pipefitters and Steamfitters	480	\$19.16	\$12.86	\$14.43	\$18.54	\$22.42	\$27.87
East	'47-2152	Plumbers Pipefitters and Steamfitters	*	\$16.87	\$12.58	\$13.92	\$16.51	\$19.54	\$22.18

United States Department of Labor Data

O National Employment Matrix title and code		Employment				Change, 2010-20		Job openings due to growth and replacements
		Number		Percent distribution		Number	Percent	
		2010	2020	2010	2020			
Total, All Occupations	00-0000	143,068.2	163,537.1	100.0	100.0	20,468.9	14.3	54,787.4
Plumbers, Pipefitters, and Steamfitters	47-2152	419.9	527.5	0.3	0.3	107.6	25.6	228.8

Occupational Employment and Wages, May 2011

47-2152 Plumbers, Pipefitters, and Steamfitters

Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinklerfitters.

National estimates for this occupation: Top

Employment estimate and mean wage estimates for this occupation:

Employment (1)	Employment RSE (3)	Mean hourly wage	Mean annual wage (2)	Wage RSE (3)
349,320	1.1 %	\$24.92	\$51,830	0.5 %

Percentile wage estimates for this occupation:

Percentile	10%	25%	50% (Median)	75%	90%
Hourly Wage	\$13.61	\$17.33	\$22.96	\$31.15	\$39.57
Annual Wage (2)	\$28,310	\$36,050	\$47,750	\$64,790	\$82,310

Industry profile for this occupation: Top

Industries with the highest published employment and wages for this occupation are provided.

Industries with the highest levels of employment in this occupation:

Industry	Employment(1)	Percent of industry employment	Hourly mean wage	Annual mean wage (2)
Building Equipment Contractors	240,120	14.69	\$25.19	\$52,390
Nonresidential Building Construction	17,520	2.69	\$26.81	\$55,770
Utility System Construction	14,250	3.59	\$23.04	\$47,910
Local Government (OES Designation)	12,980	0.23	\$23.06	\$47,970
Ship and Boat Building	5,910	4.77	\$21.43	\$44,570

Industries with the highest concentration of employment in this occupation:

Industry	Employment(1)	Percent of industry employment	Hourly mean wage	Annual mean wage (2)
Building Equipment Contractors	240,120	14.69	\$25.19	\$52,390
Ship and Boat Building	5,910	4.77	\$21.43	\$44,570
Natural Gas Distribution	5,090	4.69	\$25.78	\$53,630
Utility System Construction	14,250	3.59	\$23.04	\$47,910
Water, Sewage and Other Systems	1,530	3.22	\$21.99	\$45,740

Top paying industries for this occupation:

Industry	Employment(1)	Percent of industry employment	Hourly mean wage	Annual mean wage (2)
<u>Steel Product Manufacturing from Purchased Steel</u>	200	0.37	\$32.07	\$66,710
<u>Electric Power Generation, Transmission and Distribution</u>	1,130	0.29	\$32.01	\$66,580
<u>Foundries</u>	120	0.10	\$31.91	\$66,370
<u>Navigational, Measuring, Electromedical, and Control Instruments Manufacturing</u>	40	0.01	\$31.15	\$64,800
<u>Motor Vehicle Manufacturing</u>	1,040	0.68	\$30.83	\$64,140

Appendix B – Program Course List and Semester Layout

Semester Layout

Semester	Course Title	Credits	Lec/Lab
First			
PLMB 101	Plumbing Theory and Processes I	4	4/0
PLMB 101L	Plumbing Theory and Processes I Lab	7	0/21
PLMB 103	Blueprint Reading for Plumbers	2	1/2
MATH 115	College Math	3	3/0
SSS 100	Student Success Seminar	<u>2</u>	2/0
		18	
Second			
PLMB 151	Plumbing Theory and Processes II	4	4/0
PLMB 151L	Plumbing Theory and Processes II Lab	7	0/21
WLD 1XX	Welding Essentials for Plumbers	2	1/3
CIS 101	Computer Essentials	2	1/2
COMM 102	Communications in the Workplace	<u>3</u>	3/0
		18	

Program Course List with Descriptions

PLMB 101 – Plumbing Theory and Processes I – 4 Credits

This is an introductory course of plumbing essentials. This course will cover the basics of the Uniform Plumbing Code for plumbing installation and Safety. In addition, this course will cover basic water sources, pipe systems, equipment, drains and fixtures. (Coreq: PLMB 101L)

PLMB 101L – Plumbing Theory and Processes I – 7 Credits

This is an introductory lab course of plumbing essentials. This course will provide the hands on experience for the basics of the Uniform Plumbing Code for plumbing installation. In addition, this course will cover basic water sources, pipe systems, equipment, drains and fixtures.

(Coreq: PLMB 101)

PLMB 103 – Blueprint reading for Plumbers – 2 Credits

This is an introductory course in the study and practice of measuring, drawing, sketching and blueprint reading. The course will cover documents shown as plan view, isometric views and other areas that pertain to the plumbing and mechanical requirements.

MATH 115 – College Math – 3 Credits

A course covering the concepts and application of mathematics, that include the arithmetic order of operations, percent problems, descriptive statistics and graphing, algebraic manipulations, solving linear equations, formula rearrangement, word problems, measurement and applied plane and solid geometry. This course satisfies the institution's general education requirements for mathematics, but it is not a transfer course. (Prereq: Placement Assessment

SSS 100 – Student Success Seminar – 2 Credits

This course provides students with tools and techniques that will help them be successful in their program of study. The course focuses on interactive exercises which will help the learner identify personal strengths, learning styles, and support resources. Reading and study techniques will also be practiced.

PLMB 151 – Plumbing Theory and Processes II – 4 Credits

This is an advanced course of plumbing essentials. This course will cover the advanced topics of the Uniform Plumbing Code for plumbing installation and Safety. In addition, this course will cover basic water sources, pipe systems, equipment, drains and fixtures. (Prereq: PLMB 101; Coreq PLMB 151L)

PLMB 151L – Plumbing Theory and Processes II Lab – 7 Credits

This is an advanced lab course of plumbing essentials. This course will provide the hands on experience for the advanced topics of the Uniform Plumbing Code for plumbing installation. In addition, this course will cover basic water sources, pipe systems, equipment, drains and fixtures. (Coreq PLMB 151)

WLD 1XX – Welding Essentials for Plumbers – 2 Credits

This is a course of welding essentials relating to the plumbing industry. Students will receive general welding theory and be given laboratory time to develop their welding skills.

CIS 101 – Computer Essentials – 2 Credits

Designed to enable students with little or no computer experience to acquire a basic understanding of the personal computer. This course involves the study of computer basics such as hardware, operating systems, and file management, using the Internet for research, word processing, and spreadsheets.

COMM 102 – Communication in the Workplace – 3 Credits

Presents the elements of oral and written communication necessary to succeed in today's workplace. Emphasizes the written and oral skills needed for job search and employment. Hands-on activities and collaborative projects will provide students with comprehensive information addressing essential writing, speaking and listening skills necessary to excel in today's workplaces as well as the workplace of tomorrow.

Appendix C – Letters of Support

October 15, 2012

Mr. Jeffrey R. Holcomb, President
Southeast Technical Institute
2320 N. Career Avenue
Sioux Falls, SD 57107

Dear Mr. Holcomb:

Howe Heating & Plumbing, Inc is extremely interested in supporting a Plumbing program at Southeast Technical Institute.

Howe Heating & Plumbing, Inc has been in business since 1940 with a over 50 employees servicing the Sioux Falls and surrounding areas.

We constantly seek qualified applicants and cannot find sufficient candidates to meet the demand. We have had to seek candidates from outside the State and region to fill our positions. In order to expand our business it is essential to have an adequate supply of quality workers available for our workforce.

We offer this letter of support and would also consider setting up internship opportunities which will lead to apprenticeship opportunities. We would further help with quest speakers and supplemental information for the program.

I look forward to discussing further with you and wish you a quick approval and development of this program.

Sincerely,

Howe Heating & Plumbing, Inc



Ronald R Howe



October 1, 2012

Mr. Jeffrey R. Holcomb, President
Southeast Technical Institute
2320 N Career Avenue
Sioux Falls, SD 57107

Dear Mr. Holcomb:

Frisbees Plumbing, HVAC and Electrical is extremely interested in supporting a Plumbing program at Southeast Technical Institute.

Frisbees started as a plumbing company operating out of the back of station wagon in 1960. Soon after its inception, HVAC was added to its list of services. In the early 90's, it was decided that an electrical department would add value to the growing list of services that we were providing to our customers. Frisbees has proudly served Sioux Falls and the surrounding communities for 52 years. We currently employ approximately 105 employees and have a Plumbing showroom, a retail parts store and a sheetmetal shop where we fabricate all of our own ductwork. We are well known in Residential Construction for both New Housing and Remodel. We also specialize in Light Commercial Projects such as office buildings, apartments and fast food restaurants. Our company vision is to provide quality products and services, continuing education to our technicians/installers and to exceed customer expectations 100% of the time.

We constantly seek qualified applicants and cannot find sufficient candidates to meet the demand. We have had to seek candidates from outside the State and region to fill our positions and we have also had considerable expense in training young workers with no experience and very little knowledge of the industry. In order to expand our business it is essential to have an adequate supply of quality workers available for our workforce.

We offer this letter of support and would also consider setting up internship opportunities which will lead to apprenticeship opportunities. We would further help with guest speakers and supplemental information for the program.

I look forward to discussing further with you and wish you a quick approval and development of this program.

Sincerely,

Tom Hines, General Manager
Frisbees, Inc.



KRIER & BLAIN, INC.
HEATING • AIR CONDITIONING • PLUMBING

Mailing Address:
PO Box 356
Sioux Falls, SD 57101

Phone: 605-331-4100
FAX: 605-332-0025

Street Address:
1207 W Delaware
Sioux Falls, SD 57104

September 26, 2012

Mr. Jeffrey R. Holcomb, President
Southeast Technical Institute
2320 North Career Avenue
Sioux Falls, SD 57107

Dear Mr. Holcomb,

Krier & Blain is interested in assisting with a Plumbing Program at Southeast Technical Institute.

Krier & Blain was organized in 1979 and incorporated 1980; today Krier & Blain employs approximately 90 employees including plumbers, sheet metal and office staff. We have roughly 50 plumbers employed including journeymen, apprentices and helpers. We mostly work in a 60 to 90 miles radius of Sioux Falls; however, we do have a couple of jobs in Iowa at this time.

We are constantly seeking qualified applicants to meet the growing demand of plumbers. In order to continue to expand our business, it is essential to have a supply of quality workers available for our workforce.

We offer this letter of support and would like you to consider working together to begin internship opportunities and after the internship, apprenticeship programs.

We would further assist with guest speakers and supplemental information for the program.

I look forward in discussing this further with you and begin the development of this program.

Sincerely,

Mark Engebretson, Secretary
Krier & Blain, Inc.
1207 W. Delaware Ave, PO Box 356
Sioux Falls, South Dakota 57101
Office: 605-331-4100
Cell: 605-940-1699
Webpage: www.krierblain.com



MIDWESTERN MECHANICAL, INC.

PLUMBING • HEATING • FIRE PROTECTION

www.midwesternmechanical.com

September 24, 2012

Mr. Jeffrey R. Holcomb, President
Southeast Technical Institute
2320 N. Career Avenue
Sioux Falls, SD 57107

Dear Mr. Holcomb:

Midwestern Mechanical, Inc. is extremely interested in supporting a Plumbing program at Southeast Technical Institute.

As a contracting firm for plumbing, heating and fire protection, Midwestern Mechanical, Inc. has a solid reputation for providing superior craftsmanship, design and service in the four state area. With offices located in Sioux Falls, SD; Rapid City, SD; Sioux City, IA and Spencer, IA. Midwestern Mechanical, Inc. has almost 200 employees, many of whom have been with the company since its inception in 1983.

We constantly seek qualified applicants and cannot find sufficient candidates to meet the demand. We have had to seek candidates from outside the State and region to fill our positions. In order to expand our business it is essential to have an adequate supply of quality workers available for our workforce.

We offer this letter of support and would also consider setting up internship opportunities which will lead to apprenticeship opportunities. We would further help with quest speakers and supplemental information for the program.

I look forward to discussing further with you and wish you a quick approval and development of this program.

Sincerely,

Dwayne Klarenbeek
President

Sioux Falls, SD
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2100 Business Hwy 75 North
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Fax 712-224-6162
sioux@mwmech.com



SOUTH DAKOTA ASSOCIATION

OFFICE OF THE
EXECUTIVE VICE PRESIDENT
ken.phcc@midconetwork.com

OF PLUMBING • HEATING • COOLING CONTRACTORS, INC.
(605) 271-7255 • 1-800-640-7422 • 1000 N. WEST AVE. #200 • SIOUX FALLS, SD 57104

September 24 , 2012

Mr. Jeffrey R. Holcomb, President
Southeast Technical Institute
2320 N. Career Avenue
Sioux Falls, SD 57107

Dear Mr. Holcomb:

The South Dakota Association of Plumbing, Heating, Cooling Contractors is extremely interested in supporting a Plumbing program at Southeast Technical Institute.

The South Dakota PHCC represents about 70 contractor members in South Dakota and Sioux City, Iowa. Our members range in size from 150 employees to two or three employees.

Our members constantly seek qualified applicants and cannot find sufficient candidates to meet the demand. Some of our members have to actively recruit employees from out-of-state technical schools. I'm often asked by our members if and when South Dakota will offer a Plumbing program within the state's post-secondary system. Our industry is also facing a chronic, growing shortage of qualified professionals who have obtained appropriate training.

We offer this letter of support, and we offer an extensive apprenticeship program for students who want to advance their career once they've completed a formal Plumbing curriculum. We would further help with quest speakers and supplemental information for the program.

I look forward to discussing further with you and wish you a quick approval and development of this program.

Sincerely,

Ken Melius
Executive Vice President