Special School District

Career Education
Program Evaluation

Randy Dillon, Chair

Board Approved: October 27, 2009
Career Education
Standard Program Evaluation

Executive Summary

As required by the Missouri School Improvement Plan (MSIP) standards, school districts must evaluate the Career and Technical Education programs annually. The questions approved by the Board of Education for the present program evaluation were as follows: What career education programs are offered at SSD? What does enrollment, completion, placement, and career readiness certification data indicate regarding career education programs at SSD? What are teacher and student perceptions of the career education programs at SSD?

Results

Strengths for the 2008-2009 School year

North Technical
● Enrollment was 90%+ in 2 programs of 27 programs.
● Retention from the junior to senior program was 90%+ in 4 of 27 programs.
● Program Completion/Graduation was 90+ in 3 of 27 programs
● Placement was 80%+ in 7 of 27 programs.
● WorkKeys participants have increased over the last year.
● Teacher Perceptions have increased in Instructional Efficacy.
● Student Perceptions have increased in School Climate, Quality Learning Environment and Media/Technology Resources.

South Technical
● Enrollment was 90%+ in 1 of 29 programs.
● Retention from the junior to senior program was 90%+ in 7 of 29 programs.
● Program Completion/Graduation was 90+ in 5 of 29 programs
● Placement was 80%+ in 8 of 29 programs.
● WorkKeys participants have increased over the last year.
● Teacher Perceptions have increased in Library Resources.
● Student Perceptions have increased in School Climate, Quality Learning Environment and Media/Technology Resources.

Concerns from the 2008-2009 School Year

North Technical
● Enrollment was 60% or less in 2 of 27 programs.
● Program Completion/Graduation was 60% or less in 16 of 27 programs.
● Placement was 60% or less in 5 of 27 programs.
● WorkKeys numbers have increased, but the percentage earning a certificate has declined.
● Teacher Perception of Parental Involvement has declined.
South Technical
- Enrollment was 60% or less in 19 of 29 programs.
- Retention from the junior to senior program was 60% or less in 4 of 29 programs.
- Program Completion/Graduation was 60% or less in 8 of 29 programs.
- Placement was 60% or less in 5 of 29 programs.
- WorkKeys numbers have increased, but the percentage earning a certificate has declined.
- Teacher Perceptions declined in Instructional Setting & Materials and Instructional Efficacy.

Recommendations:

- Continue positive concentration of Admissions Representatives and Marketing Plan on low enrolled programs, especially at South Tech.
- Continue positive efforts to retain students from junior to senior year (i.e.: communication with partner district counselors, and review of four-year plan).
- Continue positive efforts to improve completion/graduation rate (i.e.: formative assessments and Data Team review of student progress).
- For programs with retention to completion rates less than 50%, improve the rate by 10% annually to a minimum of 60% with a goal of reaching 80%.
- Improve placement in programs with rates less than 60% by 20% annually to at least 60% in three years by increasing involvement of advisory committee members and implementation of dual credit programs.
- Continue using the CRC as one aspect of student achievement with the goal of increasing the number of students receiving certificates by 10% at each school with specific improvement in programs with less than 50% of students receiving a certificate.
- Focus on Teacher Perception of Instructional Improvement at South Tech.
- Focus on Teacher Perception of increased Parental Involvement at North Tech.
- Continue with all initiatives contributing to high School Climate, Quality Learning Environment and Media/Technology Resources ratings by students at both schools with particular emphasis on Data Teams, MAX Teaching and e-MINTS initiatives.

Update on Recommendations from 2008 Program Evaluation:

Recommendation followed by Up-date:

- (1) Re-organize the approach to admissions to reflect the need to promote low enrolled programs. Meet the minimum 10 student enrollment in junior program or consider closing a program
- Admissions Representatives have placed increased emphasis on low-enrolled programs during presentations. Not all programs have benefited, but some (such as Printing and Electronics/Robotics at South Tech and Turf Management at North Tech) have increased.

Board Approved: 10/27/2009
Career Education

Standard Program Evaluation

- (2) Improve placement in programs with rates less than 60% by 20% annually to at least 60% in three years.
- Enrollment, retention, graduation/completion, and placement have all been included in the CTE Advisory Board approved system as portions of the Program Status Indicator (PSI) Scorecard.

- (3) Improve the media and instructional technology resources available to students.
- Five (5) additional faculty are being trained in e-MINTS and additional technology is being provided with Enhancement Grant funding.

- (4) Continue with all initiatives contributing to high climate ratings by students and faculty.
- Facility improvements and strong instructional supervision have provided students and faculty with an environment that is safe and conducive to learning.

- (5) For programs with retention to completion rates less than 50%, improve the rate by 10% annually to a minimum of 60% with a goal of reaching 80%.
- The new marketing initiative places an emphasis on retention of students. The first staff in-service was conducted on October 16th.

- (6) Continue using the CRC as one aspect of student achievement with the goal of increasing the number of student receiving certificates by 10% at each school with specific improvement in programs with less than 50% of students receiving a certificate.
- While the CRC continues to serve as one indicator of student achievement, more emphasis is being placed on DESE mandated End-of-Course examinations and Perkins mandated Technical Skill Assessments.

Board Approved: 10/27/2009
Program Evaluation Question(s)
What career education programs are offered at SSD?
What does enrollment, completion, placement, and career readiness certification data indicate regarding career education programs at SSD?
What are teacher and student perceptions of the career education programs at SSD?

I. Program/Service Information
1. Name of Program or Services:
   Career Education

2. Personnel Responsible for Evaluation and Program:
   Dr. Randy Dillon

3. Demographic Description of Program:
   Locations: North Tech, South Tech, Off-Campus Sites

   Number of Staff:
   13 Administrators
   124 Certificated Faculty
   29.35 Certificated Support Staff
   13 Classified Support Staff
   15 Para-Professional
   15 Secretarial
   21 Adult Education

   Participants:
   2000 Secondary Students
   120 Full-time Adult
   1500 Part-time Adult

   Length of Program/Service:
   Secondary Students – 2 years
   Adult Education – Varies with Program

4. Date of Evaluation (Year/Duration):
   July, 2008 – September 2009

5. Goal/Objective of Program/Services:
   The goal of Technical Education is to (1) provide secondary students with academic and technical skills which will enable them to become competitive entry-level workers or continue into a post-secondary program, (2) provide adults with initial skill training to enter or advance in a career, and (3) provide adult employed workers with skills to maintain their present employment or re-train for new jobs. This evaluation will preclude analysis of the Adult Education program as it will be covered in a separate program evaluation.

Board Approved: 10/27/2009
6. Brief description of relationship between program goals, CSIP and MSIP Standards:
   Program goals are related to CSIP and MSIP standards. Information gathered will assist in
   ensuring that career education is an integral part of the educational program (MSIP Standard
   7.3). In addition, results of the evaluation will provide a review of program goals and
   effectiveness, as well as facilitate program improvement and efficient achievement of goals
   (MSIP Standard 8.1). Program goals are also related to CSIP goals 1 (Student Performance), II
   (Highly Qualified Staff), III (Facilities, Support and Instructional Resources), and IV (Parent and
   Community Involvement).

II. Evaluation Criteria for Programs/Services Offered (check type utilized)
   Program Descriptions
   Enrollment and Capacity Data
   Retention to Enrollment and Completion/Graduation
   Placement Data
   Student Performance Data-Career Readiness Certification
   Teacher Perception Data
   Student Perception Data

III. Description of Stakeholders Engagement in Program Evaluation:
The program evaluation committee consisted of stakeholders from schools, community, and business/industry.
Committee members and their respective roles are reported below. The program evaluation committee met
three times during the year to discuss the evaluation. Agenda items included (a) identifying data needs, (b)
determining pertinent data available to the members, (c) analyzing appropriate data, and (d) determining
strengths, concerns, and recommendations.

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Randy Dillon</td>
<td>Director, Technical Education</td>
</tr>
<tr>
<td>Shane Trafton</td>
<td>Administrator, Curriculum and Instruction</td>
</tr>
<tr>
<td>Chris Baldwin</td>
<td>Administrator, Program Evaluation</td>
</tr>
<tr>
<td>Mike Powers</td>
<td>Principal, North Tech</td>
</tr>
<tr>
<td>Dave Baker</td>
<td>Principal, South Tech</td>
</tr>
<tr>
<td>Dennis Mix</td>
<td>Administrator, Adult Education</td>
</tr>
<tr>
<td>Leigh Roberts</td>
<td>Facilitator – Assessment, South Tech</td>
</tr>
<tr>
<td>Kirsta Armstead</td>
<td>Facilitator – Assessment, North Tech</td>
</tr>
<tr>
<td>Don Hosutt</td>
<td>Administrator, Student Services and Admissions</td>
</tr>
<tr>
<td>Jane Kerlagon</td>
<td>Facilitator, Business/Industry Relations</td>
</tr>
<tr>
<td>Marti Garrett</td>
<td>Facilitator, Data, Research and Evaluation</td>
</tr>
<tr>
<td>John Gaal</td>
<td>Carpenters District Council</td>
</tr>
</tbody>
</table>
IV. Results
Data gathered for this evaluation include descriptions of career education programs, capacity and enrollment, retention to enrollment and completion, placement rates, and career readiness certificates. Data for individual programs will be reported below and grouped according to the following career education areas: (a) Business and Graphics, (b) Construction, Mechanics and Technology, and (c) Medical Services, Public Safety and Services.

Business and Graphics

Program Description (Business and Graphics)
SSD currently offers nine programs within the Business and Graphics area. Descriptive program information taken from the SSD website is listed below.

Broadcast Captioning & Court Reporting: This program follows the curriculum of the National Court Reporters Association. Objectives include learning machine shorthand, computer aided transcription (CAT), communications access real-time translation (CART), speed building techniques, editing, court and information reporting, medical and legal terminology, transcript preparation, real-time single and multiple voice transcription. (Offered at South Technical High School)

Graphics Design - Commercial Art: In Graphics Design students design the graphics and text for advertising, publishing and display purposes. Cross training helps develop an understanding of what it takes to make designs a reality. Students learn design principles, elements and color theory, typography, fundamentals of advertising, graphic design, graphic illustration and electronic media, production and camera ready art, Adobe in Design, Illustrator and Photoshop, Quarkxpress. (Offered at North and South Technical High School)

Graphics Communication - Printing: In Printing Technology students learn about conventional printing methods, flexography and silk screening. This program is PrintED certified and nationally accredited by the Graphic Arts Education and Research Foundation providing students with the opportunity to earn certifications in Introduction to Graphic Communications and Press Operations. Students learn to operate, maintain and troubleshoot equipment, offset inks and dampening chemistry, layout and design, typography, electronic imaging and state of the art direct to plate technology, process color photography, digital prepress activities, proofing procedures, legal considerations, cost awareness, print math, and binding and finishing. (Offered at North and South Technical High School)

Geospatial Technology: Students are trained in the utilization of the latest laser surveying and digital imaging equipment, GPS locators, Adobe Photoshop and Illustrator. Students also learn to plan, interpret and design mechanical, architectural and structural drawings utilizing computer-aided drafting (CAD) techniques. (Offered at North and South Technical High School).

Fashion Design: Students learn fashion history and trends, design and color theory, design sketching, fashion illustration, pattern making, clothing construction, hand and machine sewing techniques, draping and grading,
textiles and trimmings, as well as fashion merchandising and computer aided design. (Offered at North and South Technical High School)

**Financial Services:** Students learn business ethics, accounts payable and receivable, expenditure and receipt processing, financial statements, billing, payroll, purchasing and inventory procedures. The real estate industry, banking and finance, communications support, basic and advanced skills in word processing, spreadsheet, presentation, desktop publishing and database software are also covered. Students also participate in mock interviews, resume preparation, leadership organizations and community service projects. (Offered at North Technical High School)

**Network Administration:** This is a college level course offered for honors credit. Network Administration is a comprehensive e-learning program providing internet technology skills essential in a global economy. Students have the opportunity to earn Network+, A+, Cisco Certified Entry Networking Technician (CCENT) and Cisco Certified Network Associate (CCNA) certifications. Students design, build and maintain wireless networks, internet and intranet, security and firewall systems, build and repair computers and printers, troubleshoot hardware and software, assist customers with computer training and problem resolution. This includes routers, switching, operating systems, multimedia capabilities, VLAN and WAN technologies. (Offered at North and South Technical High School)

**Hospitality Tourism & Event Planning:** Students utilize the Sabre reservation system and work with industry partners including Marriott and Drury Hotels, Pinnacle Entertainment, Oceania Cruises, Globus Tours, and Apple Vacations. Students learn Greenwich mean time and the 24 hour clock, U.S. and world geography relative to tourism, customer service and develop sales presentations. Domestic and international fares, official recreation guides, tour packages, rail, air and cruise travel, car rentals and hotels are also covered. Students may earn several certifications through Sabre, Marriott and the Institute of Certified Travel Agents. (Offered at North Technical High School)

**Web and Computer Programming:** Students learn program logic and design, information systems for business, and a variety of programming languages including HTML, Visual Basic, JavaScript, Java and C++. Web and Computer Programming parallels courses taught at the college level and gives students the opportunity to earn Visual Basic certification. (Offered at North and South Technical High School)
Enrollment and Capacity (Business and Graphics)

Enrollment and capacity for each of the programs in the Business and Graphics area are listed below in Table 1 (North County Tech) and Table 2 (South County Tech). Enrollment capacity, number of students enrolled in September, and percentage of capacity are reported for 2006-2007, 2007-2008 and 2008-2009.

Table 1. Enrollment and Capacity: Business and Graphics Programs (North County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cap. N %</td>
<td>Cap. N %</td>
<td>Cap. N %</td>
</tr>
<tr>
<td>Broadcast Capt. &amp; Court Rpt.</td>
<td>40 7 17.5%</td>
<td>NA NA NA</td>
<td>NA NA NA</td>
</tr>
<tr>
<td>Fashion Design</td>
<td></td>
<td></td>
<td>30 28 93.3%</td>
</tr>
<tr>
<td>Graphics Design: Commercial Art</td>
<td>40 30 75.0%</td>
<td>40 35 87.5%</td>
<td>40 28 70%</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>40 27 67.5%</td>
<td>40 38 95.0%</td>
<td>40 29 72.5%</td>
</tr>
<tr>
<td>Graphics Communication: Printing</td>
<td>40 21 52.5%</td>
<td>40 20 50.0%</td>
<td>40 20 50%</td>
</tr>
<tr>
<td>Financial Services</td>
<td>40 24 60.0%</td>
<td>40 31 77.5%</td>
<td>40 35 87.5%</td>
</tr>
<tr>
<td>Network Administration</td>
<td>40 25 62.5%</td>
<td>40 35 87.5%</td>
<td>40 27 67.5%</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>40 23 57.5%</td>
<td>40 25 62.5%</td>
<td>40 19 47.5%</td>
</tr>
<tr>
<td>Web and Computer Programming</td>
<td>40 29 72.5%</td>
<td>40 30 75.0%</td>
<td>40 36 90%</td>
</tr>
<tr>
<td>*<em>Total</em></td>
<td>320 186 58.1%</td>
<td>280 214 76.4%</td>
<td>310 222 71.6%</td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total N ÷ Total Capacity).

The overall enrollment versus capacity percentage in the Business and Graphics area at North Technical High School increased from 2006-2007 to 2007-2008 (58.1% to 76.4%) but slipped from 2007-2008 to 2008-2009 (76.4% to 71.6%). The largest increases in enrollment for 2008-2009 are noted in the Web and Computer Programming and Financial Services programs; whereas the Geospatial Technology and Network Administration programs demonstrated the largest decline in enrollment. Fashion Design was a new program at North Tech for the 2008-2009 school year and was at near capacity in enrollment.

Board Approved: 10/27/2009
Table 2. Enrollment and Capacity: Business and Graphics Programs (South County Tech)

<table>
<thead>
<tr>
<th>South Technical High School</th>
<th>Cap.</th>
<th>N</th>
<th>%</th>
<th>Cap.</th>
<th>N</th>
<th>%</th>
<th>Cap.</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadcast Captioning &amp; Court Rpt.</td>
<td>40</td>
<td>12</td>
<td>30.0%</td>
<td>40</td>
<td>24</td>
<td>60.0%</td>
<td>40</td>
<td>10</td>
<td>25%</td>
</tr>
<tr>
<td>Fashion Design</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>20</td>
<td>16</td>
<td>80.0%</td>
<td>40</td>
<td>24</td>
<td>60%</td>
</tr>
<tr>
<td>Graphics Design: Commercial Art</td>
<td>40</td>
<td>21</td>
<td>52.5%</td>
<td>40</td>
<td>16</td>
<td>40.0%</td>
<td>40</td>
<td>18</td>
<td>45%</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>40</td>
<td>15</td>
<td>37.5%</td>
<td>40</td>
<td>13</td>
<td>32.5%</td>
<td>40</td>
<td>8</td>
<td>20%</td>
</tr>
<tr>
<td>Graphics Communication: Printing</td>
<td>40</td>
<td>13</td>
<td>32.5%</td>
<td>40</td>
<td>6</td>
<td>15.0%</td>
<td>40</td>
<td>15</td>
<td>37.5%</td>
</tr>
<tr>
<td>Network Administration</td>
<td>40</td>
<td>15</td>
<td>37.5%</td>
<td>40</td>
<td>12</td>
<td>30.0%</td>
<td>40</td>
<td>17</td>
<td>42.5%</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>40</td>
<td>5</td>
<td>12.5%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Web and Computer Programming</td>
<td>40</td>
<td>8</td>
<td>20.0%</td>
<td>40</td>
<td>17</td>
<td>42.5%</td>
<td>40</td>
<td>23</td>
<td>57.5%</td>
</tr>
<tr>
<td>Total*</td>
<td>280</td>
<td>89</td>
<td>31.8%</td>
<td>260</td>
<td>104</td>
<td>40.0%</td>
<td>280</td>
<td>115</td>
<td>41.1%</td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total N ÷ Total Capacity).

The overall enrollment versus capacity percentage in the Business and Graphics area at South Technical High School increased from 2006-2007 to 2007-2008 (31.8% to 40.0%) and again from 2007-2008 to 2008-2009 (40% to 41.1%). The largest increases in enrollment are noted in the Graphics Communication: Printing, Web and Computer Programming and Network Administration programs. The largest declines are in Broadcast Captioning & Court Reporting and Fashion Design.
Retention and Program Completion: Cohort Analysis (Business and Graphics)

Based on information contained in the student information system (SIS), a cohort analysis was conducted to determine the rate of juniors who continued as seniors the following year. In addition, the completion and/or graduation rate of the cohort was examined. Completion and/or graduation is based on students who successfully completed all program requirements and graduated from their home school or an SSD technical education school. Retention and completion status for students in the Business and Graphics area is reported below in Table 3 (North County Tech) and Table 4 (South County Tech). In some cases it will be noted that the number of 12th grade seniors increases from the 11th grade junior count due to mid-year registrations and one-year enrollments.

Table 3. Cohort Analysis: Business and Graphics (North County Tech)

<table>
<thead>
<tr>
<th>North County Tech.</th>
<th>05-06 Status</th>
<th>06-07 Enrollment and Completion Status</th>
<th>06-07 Status</th>
<th>07-08 Enrollment and Completion Status</th>
<th>07-08 Status</th>
<th>08-09 Enrollment and Completion Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11th Grade</td>
<td>12th Grade</td>
<td>Graduate or Complete</td>
<td>11th Grade</td>
<td>12th Grade</td>
<td>Graduate or Complete</td>
</tr>
<tr>
<td>Broadcast Capt. &amp; Court Rpt’ing</td>
<td>5</td>
<td>3 (60%)</td>
<td>2 (40%)</td>
<td>14</td>
<td>4 (29%)</td>
<td>3 (21%)</td>
</tr>
<tr>
<td>Fashion Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Design:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial Art</td>
<td>16</td>
<td>9 (56%)</td>
<td>9 (56%)</td>
<td>21</td>
<td>14 (67%)</td>
<td>14 (67%)</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>8</td>
<td>7 (88%)</td>
<td>5 (63%)</td>
<td>20</td>
<td>18 (90%)</td>
<td>16 (80%)</td>
</tr>
<tr>
<td>Graphic Comm.: Prt.</td>
<td>13</td>
<td>9 (69%)</td>
<td>8 (62%)</td>
<td>20</td>
<td>9 (45%)</td>
<td>9 (45%)</td>
</tr>
<tr>
<td>Financial Services</td>
<td>10</td>
<td>9 (90%)</td>
<td>9 (90%)</td>
<td>17</td>
<td>12 (71%)</td>
<td>10 (59%)</td>
</tr>
<tr>
<td>Network Admin.</td>
<td>10</td>
<td>8 (80%)</td>
<td>8 (80%)</td>
<td>17</td>
<td>15 (88%)</td>
<td>15 (88%)</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>11</td>
<td>7 (64%)</td>
<td>4 (36%)</td>
<td>12</td>
<td>6 (50%)</td>
<td>6 (50%)</td>
</tr>
<tr>
<td>Web and Comp. Prog.</td>
<td>13</td>
<td>11 (85%)</td>
<td>10 (77%)</td>
<td>13</td>
<td>10 (77%)</td>
<td>10 (77%)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>86</td>
<td>63 (73%)</td>
<td>55 (64%)</td>
<td>134</td>
<td>88 (66%)</td>
<td>83 (62%)</td>
</tr>
</tbody>
</table>

* Percentages reflect the proportion of the original cohort. Average Margin of Error = 3%. Board Approved: 10/27/2009
The overall junior-to-senior cohort retention rate in the Business and Graphics area at North Technical High School declined from 2006-2007 to 2007-2008 (73% to 66%) then rebounded from 2007-2008 to 2008-2009 (66% to 84%). Subsequently, the overall cohort graduation/completion rate also declined during the first two years examined (64% to 62%), but likewise rebounded during the last two years (62% to 69%). With regard to the junior-to-senior cohort retention rate, all programs except Graphic Design: Commercial Art evidenced improved rates. With regard to the cohort graduation/completion rate, the Financial Services and Hospitality Tourism programs evidenced the strongest rate of improvement while Geospatial Technology, Printing and Web Design experienced the greatest decline across the last two years examined.
Table 4. Cohort Analysis: Business and Graphics (South County Tech)

<table>
<thead>
<tr>
<th>South County Tech.</th>
<th>05-06 Status</th>
<th>06-07 Enrollment and Completion Status</th>
<th>06-07 Status</th>
<th>07-08 Enrollment and Completion Status</th>
<th>07-08 Status</th>
<th>08-09 Enrollment and Completion Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11th Grade</td>
<td>12th Grade Enroll</td>
<td>Graduate or Complete</td>
<td>11th Grade</td>
<td>12th Grade Enroll</td>
<td>Graduate or Complete</td>
</tr>
<tr>
<td>Broadcast Cap. &amp; Crt. Rpt.</td>
<td>6</td>
<td>5 (83%)</td>
<td>6 (67%)</td>
<td>6</td>
<td>2 (33%)</td>
<td>2 (33%)</td>
</tr>
<tr>
<td>Fashion Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Design:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial Art</td>
<td>11</td>
<td>6 (55%)</td>
<td>5 (45%)</td>
<td>11</td>
<td>6 (55%)</td>
<td>6 (55%)</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>7</td>
<td>5 (71%)</td>
<td>3 (43%)</td>
<td>8</td>
<td>8 (100%)</td>
<td>8 (100%)</td>
</tr>
<tr>
<td>Graphics Comm.: Prt.</td>
<td>12</td>
<td>10 (83%)</td>
<td>10 (83%)</td>
<td>6</td>
<td>2 (33%)</td>
<td>1 (17%)</td>
</tr>
<tr>
<td>Network Admin.</td>
<td>9</td>
<td>6 (67%)</td>
<td>6 (67%)</td>
<td>8</td>
<td>4 (50%)</td>
<td>4 (50%)</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>7</td>
<td>3 (43%)</td>
<td>3 (43%)</td>
<td>2</td>
<td>1 (50%)</td>
<td>1 (50%)</td>
</tr>
<tr>
<td>Web and Comp. Prog.</td>
<td>9</td>
<td>4 (44%)</td>
<td>4 (44%)</td>
<td>3</td>
<td>3 (100%)</td>
<td>3 (100%)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>61</strong></td>
<td><strong>39 (64%)</strong></td>
<td><strong>35 (57%)</strong></td>
<td><strong>44</strong></td>
<td><strong>26 (59%)</strong></td>
<td><strong>25 (57%)</strong></td>
</tr>
</tbody>
</table>

* Percentages reflect the proportion of the original cohort. Average Margin of Error = 3%.

The overall junior-to-senior cohort retention rate in the Business and Graphics area at South Technical High School declined from 2006-2007 to 2007-2008 (64% to 59%), but rose significantly from 2007-2008 (59% to 75%). The overall cohort graduation/completion rate remained steady from 2006-2007 to 2007-2008 at 57% then improved from 2007-2008 to 2008-2009 (57% to 65%).

With regard to the junior-to-senior cohort retention rate, the Graphics Communication: Printing program evidenced the strongest holding power followed by Broadcast Captioning and Network Administration, while Geospatial Technology and Web and Computer Programming programs reported the greatest decline across the last two years examined.

With regard to cohort graduation/completion rate, the Graphic Communications: Printing and Network Administration programs evidenced the strongest retention rate while Web Design and Geospatial Technology programs declined across the last two years examined.
Placement Data (Business and Graphics)
Per DESE regulations, follow-up placement data must be collected on any student who earns credit in a vocational/technical education school and subsequently graduates from their home school or the vocational/technical education school. Placement data for the Business and Graphics area is reported below in Table 5 (North County Tech) and Table 6 (South County Tech). Placement reflects the number of students from the follow-up cohort identified as (a) employed in a related field, (b) continuing their education, or (c) serving in the military. It does not include as a positive placement students who are employed in a non-related field. Also counted as negatives are students who are not available for placement (i.e. deceased or incarcerated) and those with a status that is unknown. (i.e. cannot be found). Placement data was collected 180 days following student exit from the program.

Table 5. Placement: Business and Graphics Programs (North County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
</tr>
<tr>
<td>Broadcast Cap. &amp; Crt. Rpt.</td>
<td>7</td>
<td>7</td>
<td>100.0%</td>
<td>6</td>
<td>6</td>
<td>100.0%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Fashion Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphics Design : Comm. Art</td>
<td>14</td>
<td>13</td>
<td>92.9%</td>
<td>14</td>
<td>12</td>
<td>85.7%</td>
<td>18</td>
<td>15</td>
<td>83%</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>13</td>
<td>10</td>
<td>76.9%</td>
<td>11</td>
<td>10</td>
<td>90.9%</td>
<td>22</td>
<td>21</td>
<td>95%</td>
</tr>
<tr>
<td>Graphics Comm.: Printing</td>
<td>15</td>
<td>12</td>
<td>80.0%</td>
<td>14</td>
<td>13</td>
<td>92.9%</td>
<td>18</td>
<td>11</td>
<td>61%</td>
</tr>
<tr>
<td>Financial Services</td>
<td>11</td>
<td>10</td>
<td>90.9%</td>
<td>10</td>
<td>10</td>
<td>100.0%</td>
<td>17</td>
<td>15</td>
<td>88%</td>
</tr>
<tr>
<td>Network Administration</td>
<td>9</td>
<td>8</td>
<td>88.9%</td>
<td>9</td>
<td>9</td>
<td>100.0%</td>
<td>16</td>
<td>12</td>
<td>75%</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>17</td>
<td>12</td>
<td>70.6%</td>
<td>14</td>
<td>11</td>
<td>78.6%</td>
<td>19</td>
<td>13</td>
<td>68%</td>
</tr>
<tr>
<td>Web and Computer Prog.</td>
<td>20</td>
<td>19</td>
<td>95.0%</td>
<td>15</td>
<td>14</td>
<td>93.3%</td>
<td>15</td>
<td>12</td>
<td>80%</td>
</tr>
<tr>
<td>Total*</td>
<td>106</td>
<td>91</td>
<td>85.8%</td>
<td>93</td>
<td>85</td>
<td>91.4%</td>
<td>125</td>
<td>99</td>
<td>79%</td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total Placed ÷ Total Completed).

The overall placement rate in the Business and Graphics area at North Technical High School increased from 2005-2006 to 2006-2007 (85.8% to 91.4%), but declined from 2007-2008 to 2008-2009. The only increase in placement percentage was noted in the Geospatial Technology program. The steepest declines are in Graphic Design: Commercial Art and Network Administration. Detailed placement data is reported in Appendix A – Table 1.
Table 6. Placement: Business and Graphics Programs (South County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
</tr>
<tr>
<td>Broadcast Cap. &amp; Crt. Rpt.</td>
<td>6</td>
<td>3</td>
<td>50.0%</td>
</tr>
<tr>
<td>Fashion Design</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphics Design : Comm. Art</td>
<td>9</td>
<td>6</td>
<td>66.7%</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>14</td>
<td>11</td>
<td>78.6%</td>
</tr>
<tr>
<td>Graphics Comm. : Printing</td>
<td>15</td>
<td>7</td>
<td>46.7%</td>
</tr>
<tr>
<td>Network Administration</td>
<td>9</td>
<td>4</td>
<td>44.4%</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>7</td>
<td>5</td>
<td>71.4%</td>
</tr>
<tr>
<td>Web and Computer Prog.</td>
<td>13</td>
<td>12</td>
<td>92.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>73</strong></td>
<td><strong>48</strong></td>
<td><strong>65.8%</strong></td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total Placed ÷ Total Completed).

The overall placement rate in the Business and Graphics area at South Technical High School increased from 2005-2006 to 2006-2007 (65.8% to 70.2%) and again from 2007-2008 to 2008-2009 (70.2% to 78%). The largest increase in placement percentage was noted in the Graphics Design: Commercial Art program, but improvement is noted in Geospatial Technology, Graphics Communication: Printing, and Web and Computer Programming; whereas the the only decline was in the Network Administration program. Detailed placement data is reported in Appendix A – Table 2.
Career Readiness Certificates (Business and Graphics)
The Career Readiness Certificate (CRC) is a credential based on ACT’s WorkKeys assessment that gives employers and career seekers a uniform measure of key workplace skills. WorkKeys is an assessment tool that defines, measures and certifies that individuals have the skills and abilities they need to succeed in entry-level work in the 21st century workplace. These skills are for any occupation - skilled or professional - and at any level of education. WorkKeys “job profiles” identify workplace skills and skill level an individual must have to perform successfully. If you score at certain levels on three WorkKeys assessments—Applied Mathematics, Reading for Information, and Locating Information—you qualify for a National Career Readiness Certificate (i.e., Gold, Silver or Bronze). Gold level certificates indicate possession of core employability skills for approximately 85% of the jobs profiled by WorkKeys. Silver level certificates indicate possession of core employability skills for approximately 65% of the jobs profiled. Bronze level certificates indicate possession of core employability skills for 30% of the jobs profiled. The number of seniors assessed and earning certificates in the Business and Graphics area is reported below in Table 7 (North County Tech) and Table 8 (South County Tech).

Table 7. Career Readiness Certificates: Business and Graphics Programs (North County Tech)

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>G</td>
<td>S</td>
</tr>
<tr>
<td>Broadcast Capt. &amp; Crt. Rpt.</td>
<td>4</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Fashion Design</td>
<td>9</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Financial Services</td>
<td>17</td>
<td>0</td>
<td>11</td>
</tr>
<tr>
<td>Graphic Design: Comm. Art</td>
<td>9</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>15</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>Graphic Communications: Prt.</td>
<td>11</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Network Administration</td>
<td>11</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>4</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Web and Comp. Programming</td>
<td>12</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total N</strong></td>
<td>57</td>
<td>13</td>
<td>22</td>
</tr>
<tr>
<td><strong>Total %</strong></td>
<td>100</td>
<td>7.0</td>
<td>22.8</td>
</tr>
</tbody>
</table>

* N=Number of Students Assessed, G=Gold, S=Silver, B=Bronze, None=No Certificate Earned
The total number of students tested on the WorkKeys assessment in the Business and Graphics area at North Technical High School decreased across the first two years examined 2006-2007 and 2007-2008 (57 to 48), but increased sharply from 2007-2008 to 2008-2009 (48 to 112). However, the total number of career readiness certificates earned remained relatively consistent from 2006-2007 to 2007-2008 (39 to 37) then increased from 2007-2008 to 2008-2009 (37 to 67). With regard to the relative percentage of students receiving certificates, the percentage of students tested who received a certificate increased across the first two years examined 2006-2007 to 2007-2008 (68% to 77%), but declined from 2007-2008 to 2008-2009 (77% to 60%). However, there were over twice as many students examined in 2008-2009 as compared to 2007-2008 (Table 7, Previous page.)

Table 8. Career Readiness Certificates: Business and Graphics Programs (South County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadcast Cap. &amp; Crt. Rpt.</td>
<td>5</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Fashion Design</td>
<td>10</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Graphic Design: Comm.</td>
<td>16</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Art and Printing</td>
<td>16</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Geospatial Technology</td>
<td>10</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Network Administration</td>
<td>6</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Hospitality Tourism</td>
<td>3</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>Web and Comp. Prog.</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total N</strong></td>
<td><strong>38</strong></td>
<td><strong>28</strong></td>
<td><strong>37</strong></td>
</tr>
<tr>
<td><strong>Total %</strong></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

* N=Number of Students Assessed, G=Gold, S=Silver, B=Bronze, None=No Certificate Earned

The total number of students tested on the WorkKeys assessment in the Business and Graphics area at South Technical High School decreased across the first two years examined 2006-2007 to 2007-2008 (38 to 28), but increased from 2007-2008 to 2008-2009 (28 to 37). However, the total number of career readiness certificates earned remained relatively consistent from 2006-2007 to 2007-2008 (29 to 27) and again from 2007-2008 to 2008-2009 (27 to 29). With regard to the relative percentage of students receiving certificates, the percentage of students tested who received a certificate increased across the first two years examined 2006-2007 to 2007-2008 (76% to 96%), but declined from 2007-2008 to 2008-2009 (96% to 78%).
Teacher Perceptions (Business and Graphics: All Programs)

Teachers in the Business and Graphics area were administered a survey (Appendix B) to ascertain their perceptions regarding a variety of program and school-related factors. The survey consisted of items from the Advanced Questionnaire which is used in the Missouri School Improvement Program (MSIP). Individual survey items were worded positively and rated on a scale from 1 (Strongly Disagree) to 5 (Strongly Agree). The teacher survey items were clustered into 7 scales (i.e., School Climate, Instructional Setting and Materials, Parental Involvement, Library Resources, Professional Development, Instructional Efficacy, and Technology Resources). Individual items were aggregated and averaged based on the scale they contributed to. Higher scale scores reflect more positive perceptions, whereas lower scale scores indicate poorer perceptions. Teacher survey items contributing to each scale can be found in Appendix C along with scale reliability estimates. Teacher results for the Business and Graphics area are reported below in Table 9.

Table 9. Teacher Perceptions: Business and Graphics (All Programs)

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Mean</td>
<td>N</td>
<td>Mean</td>
<td>N</td>
<td>Mean</td>
<td></td>
</tr>
<tr>
<td>South Technical High School</td>
<td>7</td>
<td>4.51</td>
<td>8</td>
<td>4.66</td>
<td>8</td>
<td>4.52</td>
<td></td>
</tr>
<tr>
<td>School Climate</td>
<td>7</td>
<td>4.07</td>
<td>8</td>
<td>4.38</td>
<td>8</td>
<td>4.28</td>
<td></td>
</tr>
<tr>
<td>Inst. Setting and Materials</td>
<td>7</td>
<td>4.54</td>
<td>8</td>
<td>4.62</td>
<td>8</td>
<td>4.45</td>
<td></td>
</tr>
<tr>
<td>Parental Involvement</td>
<td>7</td>
<td>4.19</td>
<td>8</td>
<td>3.88</td>
<td>8</td>
<td>3.75</td>
<td></td>
</tr>
<tr>
<td>Professional Development</td>
<td>7</td>
<td>4.71</td>
<td>8</td>
<td>4.55</td>
<td>8</td>
<td>4.70</td>
<td></td>
</tr>
<tr>
<td>Instructional Efficacy</td>
<td>7</td>
<td>4.67</td>
<td>8</td>
<td>4.77</td>
<td>8</td>
<td>4.69</td>
<td></td>
</tr>
<tr>
<td>Technology Resources</td>
<td>7</td>
<td>4.71</td>
<td>8</td>
<td>4.28</td>
<td>8</td>
<td>4.55</td>
<td></td>
</tr>
<tr>
<td>North Technical High School</td>
<td>7</td>
<td>4.04</td>
<td>8</td>
<td>4.17</td>
<td>8</td>
<td>4.27</td>
<td></td>
</tr>
<tr>
<td>School Climate</td>
<td>7</td>
<td>3.91</td>
<td>8</td>
<td>4.11</td>
<td>8</td>
<td>4.26</td>
<td></td>
</tr>
<tr>
<td>Inst. Setting and Materials</td>
<td>7</td>
<td>4.04</td>
<td>8</td>
<td>4.20</td>
<td>8</td>
<td>4.16</td>
<td></td>
</tr>
<tr>
<td>Parental Involvement</td>
<td>7</td>
<td>3.95</td>
<td>8</td>
<td>4.04</td>
<td>8</td>
<td>4.04</td>
<td></td>
</tr>
<tr>
<td>Library Resources</td>
<td>7</td>
<td>4.23</td>
<td>8</td>
<td>4.05</td>
<td>8</td>
<td>4.48</td>
<td></td>
</tr>
<tr>
<td>Professional Development</td>
<td>7</td>
<td>4.37</td>
<td>8</td>
<td>4.46</td>
<td>8</td>
<td>4.59</td>
<td></td>
</tr>
<tr>
<td>Instructional Efficacy</td>
<td>7</td>
<td>4.09</td>
<td>8</td>
<td>4.43</td>
<td>8</td>
<td>4.50</td>
<td></td>
</tr>
</tbody>
</table>

As indicated in Table 9, perceptions of teachers in the Business and Graphics area at South Technical High School reflected a two year decline only in Library Resources. Other scores reflected either slight decline or increase from year to year. The largest improvement in teacher perceptions at South Technical High School from 2007-2008 to 2008-2009 was noted in the Technology Resources area which was also the largest decline from 2006-2007 to 2007-2008. Perceptions of teachers in the Business and Graphics area at North Technical High School reflected improvement on 5 of 7 scales over the past three years. The largest improvement in teacher perceptions at North Technical High School from 2007-2008 to 2008-2009 was noted on the Professional Development scale. Conversely, the only slight decline noted was on the Parental Involvement scale.
Student Perceptions (Business and Graphics: All Programs)

Students enrolled in the Business and Graphics area were administered a survey (Appendix D) to ascertain their perceptions regarding program and school-related factors. The survey consisted of items from the Advanced Questionnaire which is used in the Missouri School Improvement Program (MSIP). Individual survey items were worded positively and rated on a scale from 1 (Strongly Disagree) to 5 (Strongly Agree). The student survey items were clustered into 3 scales (i.e., School Climate, Quality Learning Environment, and Media and Technology Resources). Individual items were aggregated and averaged based on the scale they contributed to. Higher scale scores reflect more positive perceptions, whereas lower scale scores indicate poorer perceptions. Student survey items contributing to each scale can be found in Appendix E along with scale reliability estimates. Student results for the Business and Graphics area are reported below in Table 10.

Table 10. Student Perceptions: Business and Graphics (All Programs)

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Mean</td>
<td>N</td>
<td>Mean</td>
</tr>
<tr>
<td>South Technical High School</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School Climate</td>
<td>73</td>
<td>4.05</td>
<td>106</td>
<td>4.11</td>
</tr>
<tr>
<td>Quality Learning Environment</td>
<td>73</td>
<td>4.08</td>
<td>106</td>
<td>4.13</td>
</tr>
<tr>
<td>Media and Technology Resources</td>
<td>73</td>
<td>4.09</td>
<td>106</td>
<td>4.25</td>
</tr>
<tr>
<td>North Technical High School</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School Climate</td>
<td>165</td>
<td>3.73</td>
<td>195</td>
<td>3.88</td>
</tr>
<tr>
<td>Quality Learning Environment</td>
<td>165</td>
<td>3.79</td>
<td>195</td>
<td>3.93</td>
</tr>
<tr>
<td>Media and Technology Resources</td>
<td>165</td>
<td>4.10</td>
<td>195</td>
<td>4.12</td>
</tr>
</tbody>
</table>

Perceptions of students in the Business and Graphics area at South Technical High School reflected improvement on the School Climate scale and a slight decline on two others. Perceptions of students in the Business and Graphics area at North Technical High School reflected improvement on all scales. The largest improvements in student perceptions at North Technical High School were noted on the School Climate and Media and Technology Resources scale.
Career Education
Standard Program Evaluation

Construction, Mechanics and Technology

Program Description (Construction, Mechanics and Technology)
SSD currently offers fourteen programs within the Construction, Mechanics and Technology area. Descriptive program information taken from the SSD website is listed below.

Automotive Collision Repair: This program follows the international curriculum of the Inter-Industry Conference on Automotive Collision Repair (I-CAR). Students learn welding, detailing, metal straightening, plastic panel and structural repair, refinishing, painting, glass and body panel replacement, parts, molding and trim repair and replacement. Frame and Unibody construction and repair, electrical, lighting, cooling, engine, steering and suspension systems and the preparation of damage reports are also covered. (Offered at North and South Technical High School)

Automotive Technology: This program is certified by the National Institute of Automotive Service Excellence (ASE) and follows their curriculum. These standards reflect the skills that must be mastered to be prepared for ASE certification and offer employees an edge when applying for jobs. Our ASE certified instructors train students in vehicle preparation and maintenance, tire, wheel, alignment, brake, steering and suspension service, lubrication, cooling, fuel and exhaust systems, electrical, starting, charging and ignition systems, engine, power train and air conditioning service, emission testing and vehicle safety inspection. (Offered at North and South Technical High School)

Bricklaying and Masonry: This program was developed by the St. Louis Mason Contractors Association, and follows their curriculum for entry level bricklayers and mason tenders. Students learn welding, rigging and scaffolding, estimating, blueprint reading, wall, chimney and fireplace layout and construction utilizing mortars, block, brick and stone. Customized and architectural masonry and glass block, sills, lintels, copings, control joints, working with concrete panels, slate, marble, granite, wall and floor tile are covered as well. (Offered at South Technical High School)

Carpentry: Students learn blueprint reading, the operation of various saws, nail guns, drills, laser levels and other tools, site preparation, residential and commercial forming and framing, interior and exterior finishing. The curriculum adheres to building codes and is patterned after the carpentry apprenticeship program. During the summer, qualified students have the opportunity to work with Associated General Contractor builders. (Offered at North and South Technical High School)

Diesel Technology: Students learn preventive maintenance techniques, welding, hydraulics and engine service. Students will also cover brake, power train, steering and suspension, electrical, electronic, air induction, exhaust, fuel, lubrication and cooling systems and service. (Offered at North Technical High School)

Electrical Trades: This program is patterned after electrical apprenticeship programs and adheres to the national electrical code. Students also have the opportunity to earn CPR, first aid and OSHA certifications. Students learn to interpret schematics, read blueprints, install, connect, test and maintain electrical wiring systems in residential and commercial settings. AC circuits and wiring methods, conductors, low voltage wiring and over
Career Education
Standard Program Evaluation

current protection, load centers and safety switches, service entrance construction, rough-in and trim out, transformers, motors, controllers, 2 and 3 wire controls, reversing starters, lighting, sequence and jogging controls, special and separate control circuits are all covered in this comprehensive program. (Offered at North and South Technical High School)

Electronics and Robotics Engineering: In the electronics and robotics lab, students will learn math and electrical concepts, schematics, AC, DC, analog and digital electronic circuits, network theorems and methods, robotics design and programming, computer technology, and work with a variety of testing equipment and power supplies. Students also have the opportunity to earn Electronic Technicians Association and International Society of Certified Electronic Technicians certifications. One credit of Physics is embedded in the curriculum. (Offered at North and South Technical High School)

Floor Layers Middle Apprenticeship: This program utilizes the Floor Layers Apprenticeship curriculum. Students learn estimating, blueprint reading, covering removal, surface preparation, layout, fitting, adhesive and installation techniques for carpeting, ceramic tile, hardwood and resilient flooring. Students also have the opportunity to earn OSHA and U.S. Department of Labor, Bureau of Apprenticeship and Training certifications. During the summer, qualified students can work for a contractor. (Offered at Bayless High School)

General Construction Trades: Students learn blueprint reading, concrete forming, brick and block masonry, wall, stair, roof, ceiling and sub-floor framing, dry wall installation, flooring, trimming and painting, roofing, door, window, siding, and gutter installation, heating, ventilation and air conditioning systems maintenance, plumbing fixture, supply line, drain and vent installation. (Offered at North and South Technical High School)

Heating, Ventilation and Air Conditioning: This program is certified by HVAC Excellence providing students with the opportunity to earn certifications in HVAC electrical, heat pumps, electrical heat, gas heat, residential air conditioning and EPA refrigerant recovery. Students may earn a Certified Apartment Maintenance Technician (CAMT) certificate. Students learn to install, maintain, diagnose, repair and service residential gas furnaces, electrical heating and cooling systems utilizing specialized tools and testing instruments. Soldering and brazing, mechanical refrigeration, electricity, low and high voltage control circuitry, metal fabrication, blueprint reading, tubing, pipe, relays and capacitors and electric motors are also covered. (Offered at North and South Technical High School)

Precision Machining: Students learn to transform blueprints into finished products utilizing precision measuring, laser and photo sensing inspection instruments, manipulating metal by cutting, forming and shaping it with vertical and horizontal mills, lathes, power saws, and grinders. Students also utilize computer aided design and manufacturing (CAD/CAM), computer driven inspection equipment and CNC (computer numerical control) machine programming techniques. One credit of Mathematics is embedded in the curriculum. (Offered at North and South Technical High School)

Motorcycle Mechanics: Student training covers everything from lawn equipment and tractors to snowmobiles, ATVs, personal watercraft and motorcycles. Students learn to inspect, diagnose, maintain and repair wheels, tires, brakes, and drive trains. Tune ups, engine overhauls, diagnostic testing equipment, carburetion, starter, fuel, governor, throttle, engine, ignition, electrical and fuel systems are also covered. Students have the
opportunity to take Outdoor Power Equipment and Engine Service Association certification exams. The curriculum follows the Equipment and Engine Training Council (EETC) standards and students are eligible for EETC certification. (Offered at North and South Technical High School)

**Plumbing:** Following the Associated General Contractors, Building Officials Code Administrators and Plumbing, Heating and Cooling Contractors National Association curricula students learn soil, waste and vent systems, water distribution, soldering, brazing, welding, fixture and appliance installation, residential rough-in and finish techniques, commercial construction, plumbing design and blueprint reading. Students have the opportunity to earn OSHA certification and work as a plumber’s helper during the summer to gain work experience. (Offered at North Technical High School)

**Welding:** Students learn a multitude of welding processes, blueprint reading and metallurgy, as well as inspection and testing aligned with current welding code standards. This program is certified by the American Welding Society allowing students to earn AWS and OSHA certifications. (Offered at North and South Technical High School)
Career Education
Standard Program Evaluation

Enrollment and Capacity (Construction, Mechanics and Technology)
Enrollment and capacity for each of the programs in the Construction, Mechanics and Technology area are listed below in Table 11 (North County Tech) and Table 12 (South County Tech). Enrollment capacity, number of students enrolled on the last Wednesday in September, and percentage of capacity are reported for 2006-2007, 2007-2008 and 2008-2009.

Table 11. Enrollment and Capacity: Construction, Mechanics, and Tech. (North County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cap.</td>
<td>N</td>
<td>%</td>
</tr>
<tr>
<td>Automotive Collision Repair</td>
<td>40</td>
<td>26</td>
<td>65.0%</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>80</td>
<td>64</td>
<td>80.0%</td>
</tr>
<tr>
<td>Carpentry</td>
<td>40</td>
<td>30</td>
<td>75.0%</td>
</tr>
<tr>
<td>Diesel Technology</td>
<td>40</td>
<td>14</td>
<td>35.0%</td>
</tr>
<tr>
<td>Electrical Trades</td>
<td>40</td>
<td>34</td>
<td>85.0%</td>
</tr>
<tr>
<td>Electronics and Robotics</td>
<td>40</td>
<td>7</td>
<td>17.5%</td>
</tr>
<tr>
<td>General Construction Trades</td>
<td>40</td>
<td>33</td>
<td>82.5%</td>
</tr>
<tr>
<td>HVAC</td>
<td>40</td>
<td>38</td>
<td>95.0%</td>
</tr>
<tr>
<td>Precision Machining</td>
<td>40</td>
<td>13</td>
<td>32.5%</td>
</tr>
<tr>
<td>Motorcycle Mechanics</td>
<td>40</td>
<td>25</td>
<td>62.5%</td>
</tr>
<tr>
<td>Plumbing</td>
<td>40</td>
<td>21</td>
<td>52.5%</td>
</tr>
<tr>
<td>Welding</td>
<td>40</td>
<td>15</td>
<td>37.5%</td>
</tr>
<tr>
<td>Total*</td>
<td>520</td>
<td>312</td>
<td>60.0%</td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total N ÷ Total Capacity).

The overall enrollment versus capacity percentage in the Construction, Mechanics and Technology area at North Technical High School increased from 2006-2007 to 2007-2008 (60.0% to 67.3%) then fell from 2007-2008 to 2008-2009 (67.3% to 60.8%). The largest increases in enrollment are noted in the Carpentry and Precision Machining programs; whereas the HVAC, Plumbing and Diesel Technology programs demonstrated the largest declines in enrollment.
Table 12. Enrollment and Capacity: Construction, Mechanics, and Tech. (South County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cap.</td>
<td>N</td>
<td>%</td>
</tr>
<tr>
<td>Automotive Collision Repair</td>
<td>40</td>
<td>32</td>
<td>80.0%</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>80</td>
<td>71</td>
<td>88.8%</td>
</tr>
<tr>
<td>Bricklaying and Masonry</td>
<td>40</td>
<td>20</td>
<td>50.0%</td>
</tr>
<tr>
<td>Carpentry</td>
<td>40</td>
<td>31</td>
<td>77.5%</td>
</tr>
<tr>
<td>Electrical Trades</td>
<td>40</td>
<td>27</td>
<td>67.5%</td>
</tr>
<tr>
<td>Electronics and Robotics</td>
<td>40</td>
<td>15</td>
<td>37.5%</td>
</tr>
<tr>
<td>Floor Laying (Bayless)</td>
<td>30</td>
<td>7</td>
<td>23.3%</td>
</tr>
<tr>
<td>General Construction Trades</td>
<td>40</td>
<td>35</td>
<td>87.5%</td>
</tr>
<tr>
<td>HVAC</td>
<td>40</td>
<td>22</td>
<td>55.0%</td>
</tr>
<tr>
<td>Precision Machining</td>
<td>40</td>
<td>18</td>
<td>45.0%</td>
</tr>
<tr>
<td>Motorcycle Mechanics</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Welding</td>
<td>40</td>
<td>20</td>
<td>50.0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>470</strong></td>
<td><strong>298</strong></td>
<td><strong>63.4%</strong></td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total N ÷ Total Capacity).

The overall enrollment versus capacity percentage in the Construction, Mechanics and Technology area at South Technical High School increased slightly from 2006-2007 to 2007-2008 (63.4% to 64.1%) then declined from 2007-2008 to 2008-2009 (64.1% to 54.5%). The largest increases in enrollment are noted in the Welding and Electronics & Robotics programs; whereas the General Construction Trades and Precision Machining programs demonstrated the largest decline in enrollment.
Retention and Program Completion: Cohort Analysis (Const., Mech. and Technology)

Based on information contained in the student information system (SIS), a cohort analysis was conducted to determine the rate of juniors who continued as seniors the following year. In addition, the completion and/or graduation rate of the cohort was examined. Completion and/or graduation is based on students who successfully completed all program requirements and graduated from their home school or an SSD technical education school. Retention and completion status for students in the Construction, Mechanics and Technology area is reported below in Table 13 (North County Tech) and Table 14 (South County Tech).

Table 13. Cohort Analysis: Construction, Mechanics and Technology (North County Tech)

<table>
<thead>
<tr>
<th>North County Tech</th>
<th>05-06 Status</th>
<th>06-07 Enrollment and Completion Status</th>
<th>06-07 Status</th>
<th>07-08 Enrollment and Completion Status</th>
<th>07-08 Status</th>
<th>08-09 Enrollment and Completion Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11th Grade</td>
<td>12th Grade Enrolled</td>
<td>12th Grade Completed</td>
<td>11th Grade Enrolled</td>
<td>12th Grade Completed</td>
<td>11th Grade Enrolled</td>
</tr>
<tr>
<td>Auto Collision Repair</td>
<td>16</td>
<td>10 (63%)</td>
<td>9 (56%)</td>
<td>14</td>
<td>9 (64%)</td>
<td>9 (64%)</td>
</tr>
<tr>
<td>Automotive Tech</td>
<td>32</td>
<td>25 (78%)</td>
<td>18 (56%)</td>
<td>41</td>
<td>33 (80%)</td>
<td>29 (71%)</td>
</tr>
<tr>
<td>Carpentry</td>
<td>16</td>
<td>10 (63%)</td>
<td>9 (56%)</td>
<td>12</td>
<td>7 (58%)</td>
<td>3 (25%)</td>
</tr>
<tr>
<td>Diesel Technology</td>
<td>8</td>
<td>5 (63%)</td>
<td>3 (38%)</td>
<td>12</td>
<td>10 (83%)</td>
<td>10 (83%)</td>
</tr>
<tr>
<td>Electrical Trades</td>
<td>20</td>
<td>14 (70%)</td>
<td>13 (65%)</td>
<td>19</td>
<td>17 (89%)</td>
<td>16 (84%)</td>
</tr>
<tr>
<td>Electronics &amp; Robotics</td>
<td>3</td>
<td>2 (67%)</td>
<td>1 (33%)</td>
<td>8</td>
<td>5 (63%)</td>
<td>5 (63%)</td>
</tr>
<tr>
<td>General Construction</td>
<td>13</td>
<td>12 (92%)</td>
<td>9 (69%)</td>
<td>21</td>
<td>11 (52%)</td>
<td>10 (48%)</td>
</tr>
<tr>
<td>HVAC</td>
<td>15</td>
<td>10 (67%)</td>
<td>9 (60%)</td>
<td>18</td>
<td>17 (94%)</td>
<td>14 (78%)</td>
</tr>
<tr>
<td>Precision Machining</td>
<td>10</td>
<td>8 (80%)</td>
<td>6 (60%)</td>
<td>11</td>
<td>3 (27%)</td>
<td>3 (27%)</td>
</tr>
<tr>
<td>Motorcycle Mech.</td>
<td>8</td>
<td>6 (75%)</td>
<td>4 (50%)</td>
<td>13</td>
<td>9 (69%)</td>
<td>7 (54%)</td>
</tr>
<tr>
<td>Plumbing</td>
<td>13</td>
<td>11 (85%)</td>
<td>9 (69%)</td>
<td>22</td>
<td>16 (73%)</td>
<td>15 (68%)</td>
</tr>
<tr>
<td>Welding</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>12</td>
<td>8 (67%)</td>
<td>7 (58%)</td>
</tr>
<tr>
<td>Total</td>
<td>154</td>
<td>113 (73%)</td>
<td>90 (58%)</td>
<td>203</td>
<td>145 (71%)</td>
<td>128 (63%)</td>
</tr>
</tbody>
</table>

* Percentages reflect the proportion of the original cohort. Average Margin of Error = 3%.

The overall junior-to-senior cohort retention rate in the Construction, Mechanics and Technology area at North Technical High School declined slightly from 2006-2007 to 2007-2008 (73% to 71%) then rose slightly from 2007-2008 to 2008-2009 (71% to 72%). However, the overall cohort graduation/completion rate increased across the first two years examined (58% to 63%) then declined from 2007-2008 to 2008-2009 (63% to 54%).
With regard to junior-to-senior cohort retention rate, the greatest improvement was in the Precision Machining and Auto Collision Repair programs, while the greatest declines were in Electrical Trades, HVAC and Auto Technology.

With regard to cohort graduation/completion rate, Precision Machining showed the best improvement while the greatest declines were in Electrical Trades, Auto Tech and HVAC.

Table 14. Cohort Analysis: Construction, Mechanics and Technology (South County Tech)

<table>
<thead>
<tr>
<th>South County Tech</th>
<th>05-06 Status</th>
<th>06-07 Status</th>
<th>07-08 Status</th>
<th>08-09 Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11&lt;sup&gt;th&lt;/sup&gt;</td>
<td>12&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Graduated or</td>
<td>Completed</td>
</tr>
<tr>
<td>Auto Collision Rep.</td>
<td>19</td>
<td>12 (63%)</td>
<td>12 (63%)</td>
<td>19</td>
</tr>
<tr>
<td>Automotive Tech</td>
<td>38</td>
<td>31 (82%)</td>
<td>31 (82%)</td>
<td>42</td>
</tr>
<tr>
<td>Bricklaying and Masonry</td>
<td>4</td>
<td>2 (50%)</td>
<td>2 (50%)</td>
<td>16</td>
</tr>
<tr>
<td>Carpentry</td>
<td>18</td>
<td>13 (72%)</td>
<td>11 (61%)</td>
<td>18</td>
</tr>
<tr>
<td>Electrical Trades</td>
<td>12</td>
<td>10 (83%)</td>
<td>10 (83%)</td>
<td>17</td>
</tr>
<tr>
<td>Electronics and Robotics</td>
<td>10</td>
<td>8 (80%)</td>
<td>8 (80%)</td>
<td>5</td>
</tr>
<tr>
<td>Floor Laying (Bayless)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>7</td>
</tr>
<tr>
<td>General Const.</td>
<td>19</td>
<td>13 (68%)</td>
<td>12 (63%)</td>
<td>21</td>
</tr>
<tr>
<td>HVAC</td>
<td>13</td>
<td>10 (77%)</td>
<td>10 (77%)</td>
<td>13</td>
</tr>
<tr>
<td>Precision Mach.</td>
<td>7</td>
<td>6 (86%)</td>
<td>6 (86%)</td>
<td>11</td>
</tr>
<tr>
<td>Motorcycle Mech.</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Welding</td>
<td>12</td>
<td>8 (67%)</td>
<td>7 (58%)</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>152</strong></td>
<td><strong>113 (74%)</strong></td>
<td><strong>109 (72%)</strong></td>
<td><strong>177</strong></td>
</tr>
</tbody>
</table>

* Percentages reflect the proportion of the original cohort. Average Margin of Error = 3%.
The overall junior-to-senior cohort retention rate in the Construction, Mechanics and Technology area at South Technical High School increased from 2006-2007 to 2007-2008 (74% to 85%) then decreased slightly from 2007-2008 to 2008-2009 (85% to 83%). The overall cohort graduation/completion rate also increased across the first two years examined (72% to 84%) and then dropped from 2007-2008 to 2008-2009 (84% to 78%).

With regard to junior-to-senior cohort retention rate, HVAC and Floor Layers programs evidenced the largest increases, while Electrical Trades had the largest decrease.

With regard to cohort graduation/completion rate, the most significant increases were in Welding and Precision Machining while the largest decreases were in Electrical Trades and Auto Collision Repair.
Placement Data (Construction, Mechanics and Technology)
Per DESE regulations, follow-up placement data must be collected on any student who receives credit in a vocational/technical education school and subsequently graduates from their home school or the vocational/technical education school. Placement data for the Construction, Mechanics, and Technology area is reported below in Table 15 (North County Tech) and Table 16 (South County Tech). Placement reflects the number of students from the follow-up cohort identified as (a) employed in a related field, (b) continuing their education, or (c) serving in the military. It does not include as a positive placement students who are employed in a non-related field. Also counted as negatives are students who are not available for placement (i.e. deceased or incarcerated) and those with a status that is unknown (i.e. cannot be found). Placement data was collected 180 days following student exit from the program.

Table 15. Placement: Construction, Mechanics, and Tech. (North County Tech)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
<td></td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
<td></td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Automotive Collision Repair</td>
<td>15</td>
<td>11</td>
<td>73.3%</td>
<td></td>
<td>16</td>
<td>12</td>
<td>75.0%</td>
<td></td>
<td>10</td>
<td>3</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>42</td>
<td>32</td>
<td>76.2%</td>
<td></td>
<td>29</td>
<td>21</td>
<td>72.4%</td>
<td></td>
<td>36</td>
<td>24</td>
<td>68%</td>
<td></td>
</tr>
<tr>
<td>Carpentry</td>
<td>15</td>
<td>11</td>
<td>73.3%</td>
<td></td>
<td>14</td>
<td>12</td>
<td>85.7%</td>
<td></td>
<td>10</td>
<td>4</td>
<td>40%</td>
<td></td>
</tr>
<tr>
<td>Diesel Technology</td>
<td>11</td>
<td>8</td>
<td>72.7%</td>
<td></td>
<td>8</td>
<td>8</td>
<td>100.0%</td>
<td></td>
<td>14</td>
<td>11</td>
<td>79%</td>
<td></td>
</tr>
<tr>
<td>Electrical Trades</td>
<td>15</td>
<td>12</td>
<td>80.0%</td>
<td></td>
<td>17</td>
<td>15</td>
<td>88.2%</td>
<td></td>
<td>18</td>
<td>13</td>
<td>72%</td>
<td></td>
</tr>
<tr>
<td>Electronics and Robotics</td>
<td>6</td>
<td>6</td>
<td>100.0%</td>
<td></td>
<td>3</td>
<td>3</td>
<td>100.0%</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>General Construction Trades</td>
<td>19</td>
<td>15</td>
<td>78.9%</td>
<td></td>
<td>13</td>
<td>11</td>
<td>84.6%</td>
<td></td>
<td>15</td>
<td>10</td>
<td>67%</td>
<td></td>
</tr>
<tr>
<td>HVAC</td>
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<td>6</td>
<td>54.5%</td>
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<td>10</td>
<td>66.7%</td>
<td></td>
<td>21</td>
<td>10</td>
<td>48%</td>
<td></td>
</tr>
<tr>
<td>Precision Machining</td>
<td>4</td>
<td>4</td>
<td>100.0%</td>
<td></td>
<td>11</td>
<td>8</td>
<td>72.7%</td>
<td></td>
<td>10</td>
<td>7</td>
<td>70%</td>
<td></td>
</tr>
<tr>
<td>Motorcycle Mechanics</td>
<td>12</td>
<td>11</td>
<td>91.7%</td>
<td></td>
<td>10</td>
<td>5</td>
<td>50.0%</td>
<td></td>
<td>12</td>
<td>8</td>
<td>68%</td>
<td></td>
</tr>
<tr>
<td>Plumbing</td>
<td>16</td>
<td>10</td>
<td>62.5%</td>
<td></td>
<td>13</td>
<td>8</td>
<td>61.5%</td>
<td></td>
<td>18</td>
<td>12</td>
<td>68%</td>
<td></td>
</tr>
<tr>
<td>Welding</td>
<td>11</td>
<td>6</td>
<td>54.5%</td>
<td></td>
<td>9</td>
<td>6</td>
<td>66.7%</td>
<td></td>
<td>11</td>
<td>10</td>
<td>91%</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>177</td>
<td>132</td>
<td>74.6%</td>
<td></td>
<td>158</td>
<td>119</td>
<td>75.3%</td>
<td></td>
<td>175</td>
<td>112</td>
<td>64%</td>
<td></td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total Placed ÷ Total Completed).
The overall placement rate in the Construction, Mechanics and Technology area at North Technical High School increased from 2005-2006 to 2006-2007 (74.6% to 75.3%) then declined from 2007-2008 to 2008-2009 (75.3% to 64%). The largest increases in placement percentage are noted in the Motorcycle Mechanics, Plumbing and Welding programs; whereas the Auto Collision Repair, Automotive Technology, Carpentry and Diesel Technology programs demonstrated the largest decline in placement percentage. Detailed placement data is reported in Appendix A – Table 3.
The overall placement rate in the Construction, Mechanics and Technology area at South Technical High School decreased slightly from 2005-2006 to 2006-2007 (73.4% to 69.4%) with another very slight drop from 2007-2008 to 2008-2009 (69.4% to 68%). The largest increase in placement was noted in the HVAC program; whereas Automotive Collision Repair and Floor Laying demonstrated the largest decline in placement percentage. Detailed placement data is reported in Appendix A – Table 4.
Career Readiness Certificates (Construction, Mechanics and Technology)
The Career Readiness Certificate (CRC) is a credential based on ACT’s WorkKeys assessment that gives employers and career seekers a uniform measure of key workplace skills. WorkKeys is an assessment tool that defines, measures and certifies that individuals have the skills and abilities they need to succeed in entry-level work in the 21st century workplace. These skills are for any occupation - skilled or professional - and at any level of education. WorkKeys “job profiles” identify workplace skills and skill level an individual must have to perform successfully. If you score at certain levels on three WorkKeys assessments—Applied Mathematics, Reading for Information, and Locating Information—you qualify for a National Career Readiness Certificate (i.e., Gold, Silver or Bronze). Gold level certificates indicate possession of core employability skills for approximately 85% of the jobs profiled by WorkKeys. Silver level certificates indicate possession of core employability skills for approximately 65% of the jobs profiled. Bronze level certificates indicate possession of core employability skills for 30% of the jobs profiled. The number of seniors tested and earning certificates in the Construction, Mechanics and Technology area is reported below in Table 17 (North County Tech) and Table 18 (South County Tech).

Table 17. Career Readiness Certificate: Construction, Mech., and Tech. (North County Tech)

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>G</td>
<td>S</td>
</tr>
<tr>
<td>Automotive Collision Repair</td>
<td>9</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>21</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Carpentry</td>
<td>10</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Diesel Technology</td>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Electrical Trades</td>
<td>9</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Electronics and Robotics</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>General Construction Trades</td>
<td>11</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>HVAC</td>
<td>9</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Precision Machining</td>
<td>8</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Motorcycle Mechanics</td>
<td>5</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Plumbing</td>
<td>5</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Welding</td>
<td>8</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Total N</td>
<td>99</td>
<td>7</td>
<td>39</td>
</tr>
<tr>
<td>Total %</td>
<td>100</td>
<td>7.1</td>
<td>39.4</td>
</tr>
</tbody>
</table>

* N=Number of Students Assessed, G=Gold, S=Silver, B=Bronze, None=No Certificate Earned
The total number of students tested on the WorkKeys assessment in the Construction, Mechanics, and Technology area at North Technical High School remained generally consistent across the first two years examined 2006-2007 to 2007-2008 (99 to 100) then increased significantly from 2007-2008 to 2008-2009 (100 to 163). However, the total number of career readiness certificates earned declined somewhat from 2006-2007 to 2007-2008 (76 to 68) then rose from 2007-2008 to 2008-2009 (68 to 89). With regard to the relative percentage of students receiving certificates, the percentage of students tested who received a certificate decreased across the first two years examined 2006-2007 to 2007-2008 (77% to 68%) then again from 2007-2008 to 2008-2009 (68% to 55%). However, there were significantly more students testing in 2008-2009 as compared to 2007-2008 (Table 17, Previous page.)

Table 18. Career Readiness Certificate: Construction, Mech., and Tech. (South County Tech)

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N G S B None</td>
<td>N G S B None</td>
<td>N G S B None</td>
</tr>
<tr>
<td>Automotive Coll. Repair</td>
<td>11 3 5 1 2</td>
<td>11 2 5 2 2</td>
<td>6 0 1 3 2</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>28 1 21 2 4</td>
<td>35 5 16 11 3</td>
<td>24 2 12 6 4</td>
</tr>
<tr>
<td>Bricklaying and Masonry</td>
<td>5 0 1 3 1</td>
<td>9 0 3 3 3</td>
<td>10 0 2 6 2</td>
</tr>
<tr>
<td>Carpentry</td>
<td>11 0 7 2 2</td>
<td>16 2 5 7 2</td>
<td>14 1 7 6 0</td>
</tr>
<tr>
<td>Electrical Trades</td>
<td>10 1 9 0 0</td>
<td>11 0 7 2 2</td>
<td>6 1 3 2 0</td>
</tr>
<tr>
<td>Electronics and Robotics</td>
<td>9 1 8 0 0</td>
<td>5 2 1 2 0</td>
<td>10 0 3 2 5</td>
</tr>
<tr>
<td>General Const. Trades</td>
<td>12 0 4 2 6</td>
<td>12 0 6 4 2</td>
<td>10 0 5 1 4</td>
</tr>
<tr>
<td>HVAC</td>
<td>9 0 2 4 3</td>
<td>6 0 3 2 1</td>
<td>8 2 3 2 1</td>
</tr>
<tr>
<td>Precision Machining</td>
<td>6 0 4 0 2</td>
<td>11 2 5 3 1</td>
<td>8 0 4 4 0</td>
</tr>
<tr>
<td>Welding</td>
<td>7 0 4 2 1</td>
<td>7 0 3 2 2</td>
<td>7 1 3 3 0</td>
</tr>
<tr>
<td>Total N</td>
<td>108 6 65 16 21</td>
<td>123 13 54 38 18</td>
<td>103 7 43 35 18</td>
</tr>
<tr>
<td>Total %</td>
<td>100 5.6 60.2 14.8 19.4</td>
<td>100 10.6 43.9 30.9 14.6</td>
<td>100 6.8 41.8% 34% 17.5%</td>
</tr>
</tbody>
</table>

* N=Number of Students Assessed, G=Gold, S=Silver, B=Bronze, None=No Certificate Earned

The total number of students tested on the WorkKeys assessment in the Construction, Mechanics, and Technology area at South Technical High School increased across the two years examined 2006-2007 to 2007-2008 (108 to 123) then decreased from 2007-2008 to 2008-2009 (123 to 103). The total number of career readiness certificates earned also increased from 2006-2007 to 2007-2008 (87 to 105) then decreased from 2007-2008 to 2008-2009 (105 to 85). With regard to the relative percentage of students receiving certificates, the percentage of students tested who received a certificate increased across the first two years examined 2006-2007 to 2007-2008 (81% to 85%) then decreased slightly from 2007-2008 to 2008-2009 (85% to 82.6%).
Teacher Perceptions (Construction, Mechanics and Technology: All Programs)

Teachers in the Construction, Mechanics and Technology area were administered a survey (Appendix B) to ascertain their perceptions regarding a variety of program and school-related factors. The survey consisted of items from the Advanced Questionnaire which is used in the Missouri School Improvement Program (MSIP). Individual survey items were worded positively and rated on a scale from 1 (Strongly Disagree) to 5 (Strongly Agree). The teacher survey items were clustered into 7 scales (i.e., School Climate, Instructional Setting and Materials, Parental Involvement, Library Resources, Professional Development, Instructional Efficacy, and Technology Resources). Individual items were aggregated and averaged based on the scale they contributed to. Higher scale scores reflect more positive perceptions, whereas lower scale scores indicate poorer perceptions. Teacher survey items contributing to each scale can be found in Appendix C along with scale reliability estimates. Teacher results for the Construction, Mechanics and Technology area are reported below in Table 19.

Table 19. Teacher Perceptions: Construction, Mechanics and Technology (All Programs)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>N</td>
<td>Mean</td>
<td>N</td>
<td>Mean</td>
<td>N</td>
<td>Mean</td>
</tr>
<tr>
<td>South Technical High School</td>
<td>School Climate</td>
<td>12</td>
<td>4.68</td>
<td>12</td>
<td>4.57</td>
<td>12</td>
<td>4.59</td>
</tr>
<tr>
<td></td>
<td>Inst. Setting and Materials</td>
<td>12</td>
<td>4.10</td>
<td>12</td>
<td>4.34</td>
<td>12</td>
<td>4.11</td>
</tr>
<tr>
<td></td>
<td>Parental Involvement</td>
<td>12</td>
<td>4.30</td>
<td>12</td>
<td>4.33</td>
<td>8</td>
<td>4.27</td>
</tr>
<tr>
<td></td>
<td>Library Resources</td>
<td>12</td>
<td>3.72</td>
<td>12</td>
<td>3.58</td>
<td>12</td>
<td>3.78</td>
</tr>
<tr>
<td></td>
<td>Professional Development</td>
<td>12</td>
<td>4.55</td>
<td>12</td>
<td>4.58</td>
<td>12</td>
<td>4.37</td>
</tr>
<tr>
<td></td>
<td>Instructional Efficacy</td>
<td>12</td>
<td>4.62</td>
<td>12</td>
<td>4.63</td>
<td>12</td>
<td>4.28</td>
</tr>
<tr>
<td></td>
<td>Technology Resources</td>
<td>12</td>
<td>4.28</td>
<td>12</td>
<td>4.08</td>
<td>12</td>
<td>4.05</td>
</tr>
<tr>
<td>North Technical High School</td>
<td>School Climate</td>
<td>12</td>
<td>4.04</td>
<td>12</td>
<td>4.15</td>
<td>12</td>
<td>4.49</td>
</tr>
<tr>
<td></td>
<td>Inst. Setting and Materials</td>
<td>12</td>
<td>4.23</td>
<td>12</td>
<td>4.05</td>
<td>12</td>
<td>4.55</td>
</tr>
<tr>
<td></td>
<td>Parental Involvement</td>
<td>12</td>
<td>4.33</td>
<td>12</td>
<td>4.28</td>
<td>12</td>
<td>4.43</td>
</tr>
<tr>
<td></td>
<td>Library Resources</td>
<td>12</td>
<td>3.71</td>
<td>12</td>
<td>3.83</td>
<td>12</td>
<td>4.28</td>
</tr>
<tr>
<td></td>
<td>Professional Development</td>
<td>12</td>
<td>4.48</td>
<td>12</td>
<td>4.27</td>
<td>12</td>
<td>4.50</td>
</tr>
<tr>
<td></td>
<td>Instructional Efficacy</td>
<td>12</td>
<td>4.44</td>
<td>12</td>
<td>4.49</td>
<td>12</td>
<td>4.65</td>
</tr>
<tr>
<td></td>
<td>Technology Resources</td>
<td>12</td>
<td>4.02</td>
<td>12</td>
<td>4.18</td>
<td>12</td>
<td>4.32</td>
</tr>
</tbody>
</table>

Perceptions of teachers in the Construction, Mechanics and Technology area at South Technical High School reflected improvement on 2 of 7 scales over the last two years. Scores for the remaining 5 scales declined. The largest improvement in teacher perceptions at South Technical High School was noted on the Library Resources scale. Conversely, the largest decline in teacher perceptions was related to Instructional Efficacy. Perceptions of teachers in the Construction, Mechanics and Technology area at North Technical High School reflected improvement on all scales over the last two years. The largest improvements in teacher perceptions at North Technical High School were noted on the Instructional Setting and Materials and also the School Climate and Library Resources scales.
Student Perceptions (Construction, Mechanics and Technology: All Programs)

Students enrolled in the Construction, Mechanics and Technology area were administered a survey (Appendix D) to ascertain their perceptions regarding program and school-related factors. The survey consisted of items from the Advanced Questionnaire which is used in the Missouri School Improvement Program (MSIP). Individual survey items were worded positively and rated on a scale from 1 (Strongly Disagree) to 5 (Strongly Agree). The student survey items were clustered into 3 scales (i.e., School Climate, Quality Learning Environment, and Media and Technology Resources). Individual items were aggregated and averaged based on the scale they contributed to. Higher scale scores reflect more positive perceptions, whereas lower scale scores indicate poorer perceptions. Student survey items contributing to each scale can be found in Appendix E along with scale reliability estimates. Student results are reported below in Table 20.

Table 20. Student Perceptions: Construction, Mechanics and Technology (All Programs)

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Mean</td>
<td>N</td>
<td>Mean</td>
</tr>
<tr>
<td>South Technical High School</td>
<td>School Climate</td>
<td>241</td>
<td>4.11</td>
<td>253</td>
</tr>
<tr>
<td></td>
<td>Quality Learning Environment</td>
<td>241</td>
<td>4.16</td>
<td>253</td>
</tr>
<tr>
<td></td>
<td>Media and Technology Resources</td>
<td>240</td>
<td>3.72</td>
<td>251</td>
</tr>
<tr>
<td>North Technical High School</td>
<td>School Climate</td>
<td>254</td>
<td>3.89</td>
<td>272</td>
</tr>
<tr>
<td></td>
<td>Quality Learning Environment</td>
<td>254</td>
<td>3.95</td>
<td>272</td>
</tr>
<tr>
<td></td>
<td>Media and Technology Resources</td>
<td>254</td>
<td>3.58</td>
<td>272</td>
</tr>
</tbody>
</table>

Perceptions of students in the Construction, Mechanics and Technology area at South Technical High School reflected a decline on all scales over the first two years followed by an increase in all scales for the last year 2008-2009. The largest increase in student perceptions at South Technical High School was noted on the Media and Technology Resources scale, followed by School Climate and Quality Learning Environment.

Perceptions of students in the Construction, Mechanics and Technology area at North Technical High School also reflected an increase on all scales. The largest increase in student perceptions at North Technical High School was noted on the Quality Learning Environment scale followed by School Climate and Media and Technology Resources.
Career Education
Standard Program Evaluation

Medical Services, Public Safety and Services

Program Description (Medical Services, Public Safety and Services)
SSD currently offers thirteen programs within the Medical Services, Public Safety and Services area. Descriptive program information taken from the SSD website is listed below.

Cosmetology: Our program follows the same curriculum used by private cosmetology schools. Students cover both theory and technical skills to gain an understanding of the real world of professional hairstyling. Students learn about shampooing and scalp treatments, permanent waving and chemical relaxing, hair cutting, coloring, bleaching and toning, styling and texture services, skin care and makeup, manicures and pedicures, hair removal, and salon management. After completing the program and passing the Missouri State Board of Cosmetology exam, the license received is the key to your salon or spa career success. (Offered at North and South Technical High School)

Culinary Arts: This is one of the few high school programs in the country accredited by the prestigious American Culinary Federation. Students have the opportunity to earn the ACF Culinary Secondary Graduate certificate, as well as ServSafe certification from the National Restaurant Association. Students prepare for professional culinary careers in our full size state of the art restaurant kitchen. Students learn to prepare and serve recipes for special breakfast and luncheon meetings and a variety of catered functions. This includes the preparation of fruits and vegetables, salads and dressings, stock, soups and sauces, meats and poultry, fish and seafood, eggs, pastries and desserts, pastas, rice and cereals, sandwiches, canapés and hord’oeuvres. Nutrition, menu planning, knife skills, safety and sanitation procedures are also covered. (Offered at North and South Technical High School)

Dental Assistant: Dental hygiene is a rapidly growing career field and dentists are giving their assistants and hygienists many more responsibilities than in the past. Students learn infection control, hazards management, general health, emergency and preventive procedures, chair side assistance procedures for patient examinations and treatments, dental specialties, dental lab and radiographic procedures and dental office administration. Students have the opportunity to participate in a clinical internship with a dentist. One credit of Science is embedded in the curriculum. (Offered at South Technical High School)

Early Childhood Careers: Gain teaching experience, build a portfolio, earn certification and college credits in this rewarding program. Students study classroom management, evaluation techniques, guidance, health, safety and the physical, social and cognitive child development. Students plan lessons, prepare activities and teach 2 to 5 year old children in our child development center. Seniors can apply for cadet teaching internships in their home districts. Students’ portfolio of work and teaching hours can qualify them for Child Development Association certification. Students may also earn first aid and CPR/AED certifications. In addition, a ½ credit of health and ½ credit of language arts are embedded in the curriculum. (Offered at North and South Technical High School)

Emergency Medical Technician: This program follows the National EMT-Basic, Department of Homeland Security and American Heart Association curricula, as well as OSHA standards, making it possible for you to
Career Education
Standard Program Evaluation

earn numerous certifications. Students spend 32 hours of clinical time with local fire and hospital emergency
departments. This prepares them for the Missouri and National EMT written and practical certification exams.
Students learn basic life support, patient assessment, management of bleeding, fractures, respiratory, cardiac
and trauma emergencies, ambulance operations, burns, hazardous materials and environmental emergencies,
emergency management of special patients, multiple casualty situations, patient transport, rope rescue
operations and motor vehicle extrication. (Offered at North and South Technical High School)

Firefighting: Our program is certified as a fire academy by the Department of Public Safety-Division of Fire
Safety. Students learn firefighting techniques, fire suppression, emergency first responder, incident management
and rescue procedures. Students gain fire combat experience utilizing industry equipment and the fire tower,
and complete hazardous materials awareness and operations training. This curriculum follows Missouri
Firefighter I and II, National First Responder and American Heart Association curricula, as well as OSHA
standards, allowing students to earn numerous certifications. (Offered at North and South Technical High
School)

Health Sciences: Our program combines classroom with actual patient care and clinical experiences at area
hospitals and long term care facilities. This provides students with first hand exposure to a wide variety of
health careers before you graduate. You will learn asepsis, assessment of vital signs, examination, medical and
minor surgical procedures, body systems and their function, home health care, medical terminology, disease
processes, anatomy and physiology, teamwork and human relations skills. One science credit is embedded into
the curriculum. Students also have the opportunity to become certified nurse assistants and earn first aid, CPR
and AED certifications. (Offered at North and South Technical High School)

Laboratory and Pharmacy Technician: Enter the exciting fields of medical, industrial, environmental and
agricultural science as a skilled lab, clinical or pharmacy technician. Students learn lab and pharmacy math and
procedures, quality control, identification of bacteria, urinalysis, advanced biology and microbiology, anatomy
and physiology, hematology, phlebotomy, serology, chemistry, histology. Students have the opportunity to earn
pharmacy technician certification. One credit of science is embedded in the curriculum. (Offered at North and
South Technical High School)

Law Enforcement: Students are trained in human relations and ethics, physical fitness, defensive tactics, first
aid, emergency care, radio and patrol procedures. Students also study law, report writing, traffic control and
enforcement, juvenile justice, criminal investigation, conflict resolution and administration of justice, corporate
and private security. Students have the opportunity to earn CPR and AED certifications, and participate in an
internship with a police department. Advanced students have the option of moving into the Domestic
Preparedness and Security program. (Offered at North and South Technical High School)

Homeland Security and Preparedness: North and South Tech were the first high schools in the country to
develop a cutting-edge homeland security program following the Department of Homeland Security curriculum.
Our students have the opportunity to earn National Emergency Telecommunicator, Department of Homeland
Security weapons of mass destruction for law enforcement, Federal Emergency Management Agency and other
certifications. Students learn emergency responses to chemical, biological, nuclear, radioactive and explosive
hazards, emergency dispatching procedures, disaster plan development, incident command, community based
corrections and private security. Students also develop an understanding of cultural diversity, domestic and international terrorism, homeland security, weapons of mass destruction, terrorist threats, prevention and deterrence activities. Students completing either the one-year Law Enforcement or Firefighting program have first priority for this senior year program. (Offered at North and South Technical High School)

Turf Management and Landscape Design: Students learn plant propagation and identification, soils, planting techniques, pest management, disease control, greenhouse and landscape maintenance, crop production, turf management, landscape design, specialty landscaping and business procedures. Students have the opportunity to participate in an internship and earn Missouri commercial and residential pesticide application licenses. (Offered at North Technical High School)

Veterinary Assistant: Students learn medical terminology, diseases and parasites, grooming and bathing, clinical, examination, treatment and common surgical procedures, patient management, scheduling and records maintenance. Animal anatomy, physiology, nutrition, behavior, handling and restraining are also covered. Students also have the opportunity to participate in an internship and earn pet first aid certification. One credit of Science is embedded in the curriculum. (Offered at North and South Technical High School)
Enrollment and Capacity (Medical Services, Public Safety and Services)
Enrollment and capacity for each of the programs in the Medical Services, Public Safety and Services area are listed below in Table 21 (North County Tech) and Table 22 (South County Tech). Enrollment capacity, number of students enrolled on the last Wednesday of September, and percentage of capacity are reported for 2006-2007 and 2007-2008.


<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>Cap.</td>
<td>N</td>
<td>%</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>80</td>
<td>73</td>
<td>91.3%</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>60</td>
<td>47</td>
<td>78.3%</td>
</tr>
<tr>
<td>Early Childhood Careers</td>
<td>60</td>
<td>47</td>
<td>78.3%</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>40</td>
<td>25</td>
<td>62.5%</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>120</td>
<td>123</td>
<td>102.5%</td>
</tr>
<tr>
<td>Law Enforcement &amp; Homeland Security</td>
<td>40</td>
<td>22</td>
<td>55.0%</td>
</tr>
<tr>
<td>Turf Management &amp; Landscape Design</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>40</td>
<td>27</td>
<td>67.5%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>440</strong></td>
<td><strong>364</strong></td>
<td><strong>82.7%</strong></td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total N ÷ Total Capacity).

The overall enrollment versus capacity percentage in the Medical Services, Public Safety and Services area at North Technical High School decreased slightly from 2006-2007 to 2007-2008 (82.7% to 79.8%) and again from 2007-2008 to 2008-2009 (79.8% to 74.2%). The largest increases are in the Turf Management & Landscape Design and Early Childhood Careers programs; while the largest decline is in Health Services.
### Table 22. Enrollment and Capacity: Med. Services, Pub. Safety and Svcs. (South County Tech)

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cap.</td>
<td>N</td>
<td>%</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>80</td>
<td>71</td>
<td>88.8%</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Dental Assistant</td>
<td>40</td>
<td>28</td>
<td>70.0%</td>
</tr>
<tr>
<td>Early Childhood Careers</td>
<td>60</td>
<td>34</td>
<td>56.7%</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>40</td>
<td>31</td>
<td>77.5%</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>120</td>
<td>77</td>
<td>64.2%</td>
</tr>
<tr>
<td>Laboratory/Pharmacy Technology</td>
<td>40</td>
<td>16</td>
<td>40.0%</td>
</tr>
<tr>
<td>Law Enforcement &amp; Homeland Security</td>
<td>20</td>
<td>21</td>
<td>105.0%</td>
</tr>
<tr>
<td>Turf Management &amp; Landscape Design</td>
<td>40</td>
<td>11</td>
<td>27.5%</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>40</td>
<td>31</td>
<td>77.5%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>480</td>
<td>320</td>
<td>66.7%</td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total N ÷ Total Capacity).

The overall enrollment versus capacity percentage in the Medical Services, Public Safety and Services area at South Technical High School decreased slightly from 2006-2007 to 2007-2008 (66.7% to 65.2%) then increased from 2007-2008 to 2008-2009 (65.2% to 69.5%). The largest increases in enrollment are noted in the Laboratory/Pharmacy Technology and Veterinary Assistant programs; whereas the Dental Assistant, Turf Management and Landscape Design, and Law Enforcement programs demonstrated declines in enrollment.
Career Education
Standard Program Evaluation

Retention and Program Completion: Cohort Analysis (Med. Svcs., Pub. Safety and Svcs.)

Based on information contained in the student information system (SIS), a cohort analysis was conducted to determine the rate of juniors who continued as seniors the following year. In addition, the completion and/or graduation rate of the cohort was examined. Completion and/or graduation is based on students who successfully completed all program requirements and graduated from their home school or an SSD technical education school. Retention and completion status for students in the Medical Services, Public Safety and Services area is reported below in Table 23 (North County Tech) and Table 24 (South County Tech).

Table 23. Cohort Analysis: Med. Services, Pub. Safety and Services (North County Tech)

<table>
<thead>
<tr>
<th>North County Tech</th>
<th>05-06 Status</th>
<th>06-07 Enrollment and Completion Status</th>
<th>06-07 Status</th>
<th>07-08 Enrollment and Completion Status</th>
<th>07-08 Status</th>
<th>08-09 Enrollment and Completion Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11th Grade</td>
<td>12th Grade</td>
<td>Graduate or Completed</td>
<td>11th Grade</td>
<td>12th Grade</td>
<td>Graduate or Completed</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>36</td>
<td>29 (81%)</td>
<td>24 (67%)</td>
<td>44</td>
<td>34 (77%)</td>
<td>30 (68%)</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>28</td>
<td>19 (68%)</td>
<td>19 (68%)</td>
<td>29</td>
<td>18 (62%)</td>
<td>17 (59%)</td>
</tr>
<tr>
<td>Early Childhood Career</td>
<td>26</td>
<td>20 (77%)</td>
<td>19 (73%)</td>
<td>27</td>
<td>16 (59%)</td>
<td>15 (56%)</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>12</td>
<td>8 (67%)</td>
<td>8 (67%)</td>
<td>19</td>
<td>9 (47%)</td>
<td>8 (42%)</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>61</td>
<td>46 (75%)</td>
<td>30 (49%)</td>
<td>51</td>
<td>40 (78%)</td>
<td>33 (65%)</td>
</tr>
<tr>
<td>Law Enforcement &amp; Homeland Security</td>
<td>8</td>
<td>4 (50%)</td>
<td>4 (50%)</td>
<td>14</td>
<td>6 (43%)</td>
<td>5 (36%)</td>
</tr>
<tr>
<td>Turf Mgt. &amp; Landscape</td>
<td>2</td>
<td>1 (50%)</td>
<td>0 (0)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>17</td>
<td>11 (65%)</td>
<td>11 (65%)</td>
<td>14</td>
<td>12 (86%)</td>
<td>7 (50%)</td>
</tr>
<tr>
<td>Total</td>
<td>190</td>
<td>138 (73%)</td>
<td>115 (61%)</td>
<td>198</td>
<td>135 (68%)</td>
<td>115 (58%)</td>
</tr>
</tbody>
</table>

* Percentages reflect the proportion of the original cohort. Average Margin of Error = 3%.

The overall junior-to-senior cohort retention rate in the Medical Services, Public Safety and Services area at North Technical High School declined slightly from 2006-2007 to 2007-2008 (73% to 68%) then rebounded slightly from 2007-2008 to 2008-2009 (68% to 72%). The overall cohort graduation/completion rate also declined slightly across the first two years examined (61% to 58%) and again from 2007-2008 to 2008-2009 (58% to 57%).

With regard to junior-to-senior cohort retention rate, the EMT/Fire Fighting and Law Enforcement programs evidenced the greatest improvement, while there were only slight declines in the Health Services, Early Childhood Careers and Veterinary Assistant programs.

With regard to cohort graduation/completion rate, the Veterinary Assistant program evidenced the greatest improvement; whereas the Early Childhood Careers program experienced the largest decline.
Table 24. Cohort Analysis: Med. Services, Pub. Safety and Services (South County Tech)

<table>
<thead>
<tr>
<th>South County Tech</th>
<th>11&lt;sup&gt;th&lt;/sup&gt; Grade Cohort</th>
<th>11&lt;sup&gt;th&lt;/sup&gt; Grade Enrolled</th>
<th>11&lt;sup&gt;th&lt;/sup&gt; Grade Graduate or Completed</th>
<th>12&lt;sup&gt;th&lt;/sup&gt; Grade Cohort</th>
<th>12&lt;sup&gt;th&lt;/sup&gt; Grade Enrolled</th>
<th>12&lt;sup&gt;th&lt;/sup&gt; Grade Graduate or Completed</th>
<th>11&lt;sup&gt;th&lt;/sup&gt; Grade Cohort</th>
<th>11&lt;sup&gt;th&lt;/sup&gt; Grade Enrolled</th>
<th>11&lt;sup&gt;th&lt;/sup&gt; Grade Graduate or Completed</th>
<th>12&lt;sup&gt;th&lt;/sup&gt; Grade Cohort</th>
<th>12&lt;sup&gt;th&lt;/sup&gt; Grade Enrolled</th>
<th>12&lt;sup&gt;th&lt;/sup&gt; Grade Graduate or Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosmetology</td>
<td>43</td>
<td>32 (74%)</td>
<td>31 (72%)</td>
<td>40</td>
<td>32 (80%)</td>
<td>31 (78%)</td>
<td>44</td>
<td>40 (91%)</td>
<td>37 (84%)</td>
<td>40</td>
<td>32 (80%)</td>
<td>31 (78%)</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Dental Assistant</td>
<td>14</td>
<td>13 (93%)</td>
<td>13 (93%)</td>
<td>13</td>
<td>12 (92%)</td>
<td>12 (92%)</td>
<td>16</td>
<td>10 (63%)</td>
<td>10 (63%)</td>
<td>16</td>
<td>10 (63%)</td>
<td>10 (63%)</td>
</tr>
<tr>
<td>Early Childhood Careers</td>
<td>18</td>
<td>10 (56%)</td>
<td>7 (39%)</td>
<td>20</td>
<td>8 (40%)</td>
<td>8 (40%)</td>
<td>20</td>
<td>14 (70%)</td>
<td>13 (65%)</td>
<td>20</td>
<td>14 (70%)</td>
<td>13 (65%)</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>17</td>
<td>11 (65%)</td>
<td>10 (59%)</td>
<td>17</td>
<td>11 (65%)</td>
<td>11 (65%)</td>
<td>8</td>
<td>7 (88%)</td>
<td>7 (88%)</td>
<td>8</td>
<td>7 (88%)</td>
<td>7 (88%)</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>34</td>
<td>26 (76%)</td>
<td>22 (65%)</td>
<td>39</td>
<td>26 (67%)</td>
<td>26 (67%)</td>
<td>40</td>
<td>31 (78%)</td>
<td>26 (65%)</td>
<td>40</td>
<td>31 (78%)</td>
<td>26 (65%)</td>
</tr>
<tr>
<td>Lab &amp; Pharmacy Tech.</td>
<td>11</td>
<td>8 (73%)</td>
<td>8 (73%)</td>
<td>8</td>
<td>6 (75%)</td>
<td>6 (75%)</td>
<td>7</td>
<td>4 (57%)</td>
<td>2 (29%)</td>
<td>10</td>
<td>5 (50%)</td>
<td>5 (50%)</td>
</tr>
<tr>
<td>Law Enforcement &amp; Homeland Security</td>
<td>15</td>
<td>8 (53%)</td>
<td>5 (33%)</td>
<td>10</td>
<td>4 (40%)</td>
<td>4 (40%)</td>
<td>10</td>
<td>5 (50%)</td>
<td>5 (50%)</td>
<td>7</td>
<td>4 (57%)</td>
<td>4 (57%)</td>
</tr>
<tr>
<td>Turf Mgt. &amp; Landscape</td>
<td>4</td>
<td>3 (75%)</td>
<td>3 (75%)</td>
<td>6</td>
<td>4 (67%)</td>
<td>4 (67%)</td>
<td>7</td>
<td>4 (57%)</td>
<td>4 (57%)</td>
<td>17</td>
<td>15 (88%)</td>
<td>15 (88%)</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>17</td>
<td>16 (94%)</td>
<td>16 (94%)</td>
<td>14</td>
<td>11 (79%)</td>
<td>10 (71%)</td>
<td>17</td>
<td>15 (88%)</td>
<td>15 (88%)</td>
<td>17</td>
<td>15 (88%)</td>
<td>15 (88%)</td>
</tr>
<tr>
<td>Total</td>
<td>173</td>
<td>127 (73%)</td>
<td>115 (66%)</td>
<td>167</td>
<td>114 (68%)</td>
<td>112 (67%)</td>
<td>169</td>
<td>130 (77%)</td>
<td>119 (70%)</td>
<td>169</td>
<td>130 (77%)</td>
<td>119 (70%)</td>
</tr>
</tbody>
</table>

* Percentages reflect the proportion of the original cohort. Average Margin of Error = 3%.

The overall junior-to-senior cohort retention rate in the Medical Services, Public Safety and Services area at South Technical High School declined slightly from 2006-2007 to 2007-2008 (73% to 68%) then improved from 2007-2008 to 2008-2009 (68% to 77%). The overall cohort graduation/completion rate increased slightly across the first two years examined (66% to 67%) and again from 2007-2008 to 2008-2009 (67% to 70%). With regard to junior-to-senior cohort retention rate, the EMT/Firefighting and Early Childhood Careers programs evidenced the greatest increase; whereas the Dental Assistant program experienced the greatest decline.

With regard to cohort graduation/completion rate, the EMT/Fire Fighting and Early Childhood Careers programs evidenced the greatest improvement; whereas the Dental Assistant and Laboratory/Pharmacy Tech programs evidenced the greatest declines.
Placement Data (Medical Services, Public Safety and Services)
Per DESE regulations, follow-up placement data must be collected on any student who receives credit in a vocational/technical education school and subsequently graduates from their home school or the vocational/technical education school. Placement data for the Medical Services, Public Safety and Services area is reported below in Table 25 (North County Tech) and Table 26 (South County Tech). Placement reflects the number of students from the follow-up cohort identified as (a) employed in a related field, (b) continuing their education, or (c) serving in the military. Placement data was collected 180 days following student exit from the program.

Table 25. Placement: Med. Svcs., Public Safety and Svcs. (North County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>18</td>
<td>15</td>
<td>83.3%</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>20</td>
<td>18</td>
<td>90.0%</td>
</tr>
<tr>
<td>Early Childhood Careers</td>
<td>31</td>
<td>26</td>
<td>83.9%</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>20</td>
<td>14</td>
<td>70.0%</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>69</td>
<td>61</td>
<td>88.4%</td>
</tr>
<tr>
<td>Law Enf. &amp; Homeland Security</td>
<td>16</td>
<td>10</td>
<td>62.5%</td>
</tr>
<tr>
<td>Turf Mgt. &amp; Landscape Design</td>
<td>9</td>
<td>9</td>
<td>100.0%</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>5</td>
<td>5</td>
<td>100.0%</td>
</tr>
<tr>
<td>Total</td>
<td>188</td>
<td>158</td>
<td>84.0%</td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total Placed ÷ Total Completed).

The overall placement rate in the Medical Services, Public Safety and Services area at North Technical High School increased from 2005-2006 to 2006-2007 (84.0% to 87.0%), but declined from 2007-2008 to 2008-2009 (87% to 65%). The largest increase in placement percentage was noted in the Law Enforcement and Domestic Preparedness program; Turf Management and Landscape Design remained steady; and all others experienced decline. Detailed placement data is reported in Appendix A – Table 5.
Table 26. Placement: Med. Svcs., Pub. Safety and Svcs. (South County Tech)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
<td>Cohort</td>
<td>Placed</td>
<td>%</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>20</td>
<td>16</td>
<td>80.0%</td>
<td>34</td>
<td>21</td>
<td>61.8%</td>
</tr>
<tr>
<td>Dental Assistant</td>
<td>22</td>
<td>17</td>
<td>77.3%</td>
<td>16</td>
<td>10</td>
<td>62.5%</td>
</tr>
<tr>
<td>Early Childhood Careers</td>
<td>22</td>
<td>16</td>
<td>72.7%</td>
<td>14</td>
<td>9</td>
<td>64.3%</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>3</td>
<td>2</td>
<td>66.7%</td>
<td>15</td>
<td>10</td>
<td>66.7%</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>54</td>
<td>15</td>
<td>27.8%</td>
<td>40</td>
<td>34</td>
<td>85.0%</td>
</tr>
<tr>
<td>Laboratory &amp; Pharmacy Technology</td>
<td>7</td>
<td>4</td>
<td>57.1%</td>
<td>10</td>
<td>9</td>
<td>90.0%</td>
</tr>
<tr>
<td>Law Enf. &amp; Homeland Sec.</td>
<td>1</td>
<td>0</td>
<td>0.0%</td>
<td>16</td>
<td>10</td>
<td>62.5%</td>
</tr>
<tr>
<td>Turf Mgt. &amp; Landscape Design</td>
<td>24</td>
<td>14</td>
<td>58.3%</td>
<td>7</td>
<td>5</td>
<td>71.4%</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>18</td>
<td>13</td>
<td>72.2%</td>
<td>20</td>
<td>16</td>
<td>80.0%</td>
</tr>
<tr>
<td><strong>Total</strong>*</td>
<td><strong>171</strong></td>
<td><strong>97</strong></td>
<td><strong>56.7%</strong></td>
<td><strong>172</strong></td>
<td><strong>124</strong></td>
<td><strong>72.1%</strong></td>
</tr>
</tbody>
</table>

*Total percentages reflect data for active programs for the year (Total Placed ÷ Total Completed).

The overall placement rate in the Medical Services, Public Safety and Services area at South Technical High School increased from 2005-2006 to 2006-2007 (56.7% to 72.1%) and remained steady from 2007-2008 to 2008-2009 (72.1% to 72%). The largest increase in placement was noted in the Law Enforcement/Homeland Security and Dental Assistant programs; whereas the Early Childhood Careers program demonstrated the largest decline in placement percentage. Detailed placement data is reported in Appendix A – Table 6.
Career Readiness Certificates (Medical Services, Public Safety and Services)
The Career Readiness Certificate (CRC) is a credential based on ACT’s WorkKeys assessment that gives employers and career seekers a uniform measure of key workplace skills. WorkKeys is an assessment tool that defines, measures and certifies that individuals have the skills and abilities they need to succeed in entry-level work in the 21st century workplace. These skills are for any occupation - skilled or professional - and at any level of education. WorkKeys “job profiles” identify workplace skills and skill level an individual must have to perform successfully. If you score at certain levels on three WorkKeys assessments—Applied Mathematics, Reading for Information, and Locating Information—you qualify for a National Career Readiness Certificate (i.e., Gold, Silver or Bronze). Gold level certificates indicate possession of core employability skills for approximately 85% of the jobs profiled by WorkKeys. Silver level certificates indicate possession of core employability skills for approximately 65% of the jobs profiled. Bronze level certificates indicate possession of core employability skills for 30% of the jobs profiled. The number of seniors tested and earning certificates in the Medical Services, Public Safety and Services area is reported below in Table 27 (North County Tech) and Table 28 (South County Tech).


<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosmetology</td>
<td>N 20 G 1 S 6 B 4 None 9</td>
<td>N 10 G 0 S 3 B 5 None 2</td>
<td>N 31 G 0 S 2 B 1 None 28</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>N 13 G 1 S 3 B 3 None 6</td>
<td>N 13 G 1 S 3 B 4 None 5</td>
<td>N 24 G 0 S 4 B 8 None 12</td>
</tr>
<tr>
<td>Early Childhood Careers</td>
<td>N 14 G 1 S 0 B 8 None 5</td>
<td>N 9 G 0 S 1 B 4 None 4</td>
<td>N 19 G 0 S 0 B 7 None 12</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>N 8 G 2 S 2 B 0 None 4</td>
<td>N 7 G 1 S 3 B 1 None 2</td>
<td>N 17 G 0 S 0 B 7 None 10</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>N 20 G 0 S 8 B 7 None 5</td>
<td>N 22 G 0 S 10 B 4 None 8</td>
<td>N 42 G 0 S 13 B 15 None 14</td>
</tr>
<tr>
<td>Law Enf. &amp; Homeland Sec.</td>
<td>N 3 G 1 S 2 B 0 None 0</td>
<td>N 7 G 0 S 2 B 3 None 2</td>
<td>N 8 G 0 S 1 B 1 None 6</td>
</tr>
<tr>
<td>Turf Mgt. &amp; Landscape</td>
<td>N NA S NA B NA None NA</td>
<td>N NA S NA B NA None NA</td>
<td>N 17 G 0 S 4 B 5 None 8</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>N 8 G 1 S 2 B 1 None 4</td>
<td>N 9 G 0 S 2 B 3 None 4</td>
<td>N 17 G 0 S 9 B 6 None 2</td>
</tr>
<tr>
<td>Total N</td>
<td>N 86 G 7 S 23 B 23 None 33</td>
<td>N 77 G 2 S 24 B 24 None 27</td>
<td>N 175 G 0 S 33 B 50 None 92</td>
</tr>
<tr>
<td>Total %</td>
<td>N 100 G 8.1 S 26.7 B 26.7 None 38.4</td>
<td>N 100 G 2.6 S 31.2 B 31.2 None 35.1</td>
<td>N 100 G 0 S 18.9 B 28.6 None 52.6</td>
</tr>
</tbody>
</table>

* N=Number of Students Assessed, G=Gold, S=Silver, B=Bronze, None=No Certificate Earned

The total number of students tested on the WorkKeys assessment in the Medical Services, Public Safety and Services area at North Technical High School declined across the first two years examined (2006-2007 to 2007-2008 (86 to 77) but increased significantly from 2007-2008 to 2008-2009 (77 to 175). However, the total number of career readiness certificates earned remained relatively stable from 2006-2007 to 2007-2008 (53 to
50) and increased from 2007-2008 to 2008-2009 (50 to 83). With regard to the relative percentage of students receiving certificates, the percentage of students tested who received a certificate increased across the first two years examined 2006-2007 to 2007-2008 (62% to 65%) but declined from 2007-2008 to 2008-2009 (65% to 47.4%). There were, however, over twice as many students taking the WorkKeys in 2008-2009 as compared to 2007-2008.


<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>G</td>
<td>S</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>28</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>Dental Assistant</td>
<td>13</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Early Childhood Careers</td>
<td>13</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>EMT/Fire Fighting</td>
<td>11</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Health Sciences*</td>
<td>23</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>Lab &amp; Pharmacy Technician</td>
<td>7</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Law Enf. &amp; Homeland Sec.</td>
<td>7</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Turf Mgt. &amp; Landscape</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
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<tr>
<td><strong>Total N</strong></td>
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<tr>
<td><strong>Total %</strong></td>
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* Seniors in Health Sciences did not test in 2007-2008
* N=Number of Students Assessed, G=Gold, S=Silver, B=Bronze, None=No Certificate Earned

The total number of students tested on the WorkKeys assessment in the Medical Services, Public Safety and Services area at South Technical High School declined across the two years examined 2006-2007 to 2007-2008 (121 to 88) then increased from 2007-2008 to 2008-2009 (88 to 125). The total number of career readiness certificates earned declined from 2006-2007 to 2007-2008 (98 to 71) then increased from 2007-2008 to 2008-2009 (71 to 125). With regard to the relative percentage of students receiving certificates, the percentage of students tested who received a certificate remained relatively stable across the first two years examined (81% and 80.7%) but declined from 2007-2008 to 2008-2009 (80.7% to 71.2%). There were also significantly more students being examined in 2008-2009 as compared to 2007-2008. While there were fewer students taking the WorkKeys at South Tech than North Tech, the percentage of students at South Tech who achieved a certificate were higher than at North Tech.
Teacher Perceptions (Medical Services, Public Safety and Services: All Programs)
Teachers in the Medical Services, Public Safety and Services area were administered a survey (Appendix B) to ascertain their perceptions regarding a variety of program and school-related factors. The survey consisted of items from the Advanced Questionnaire which is used in the Missouri School Improvement Program MSIP). Individual survey items were worded positively and rated on a scale from 1 (Strongly Disagree) to 5 (Strongly Agree). The teacher survey items were clustered into 7 scales (i.e., School Climate, Instructional Setting and Materials, Parental Involvement, Library Resources, Professional Development, Instructional Efficacy, and Technology Resources). Individual items were aggregated and averaged based on the scale they contributed to. Higher scale scores reflect more positive perceptions, whereas lower scale scores indicate poorer perceptions. Teacher survey items contributing to each scale can be found in Appendix C along with scale reliability estimates. Teacher results for the Medical Services, Public Safety and Services area are reported below in Table 29.

Table 29. Teacher Perceptions: Med. Services, Public Safety and Svcs. (All Programs)

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<tr>
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Perceptions of teachers in the Medical Services, Public Safety and Services area at South Technical High School reflected improvement on 2 of 7 scales over the last two years. Scores for the remaining 5 scales declined slightly with the greatest decline in Instructional Setting and Materials. The largest improvement in teacher perceptions at South Technical High School was noted on the Library Resources scale.

Perceptions of teachers in the Medical Services, Public Safety and Services area at North Technical High School reflected improvement on 3 of 7 scales over the last two years. The largest improvement in teacher perceptions at North Technical High School was noted on the Instructional Efficacy scale. Conversely, the largest decline in teacher perceptions was noted on the Professional Development and Parental Involvement scales.
Student Perceptions (Medical Services, Public Safety and Services: All Programs)

Students enrolled in the Medical Services, Public Safety and Services area were administered a survey (Appendix D) to ascertain their perceptions regarding program and school-related factors. The survey consisted of items from the Advanced Questionnaire which is used in the Missouri School Improvement Program (MSIP). Individual survey items were worded positively and rated on a scale from 1 (Strongly Disagree) to 5 (Strongly Agree). The student survey items were clustered into 3 scales (i.e., School Climate, Quality Learning Environment, and Media and Technology Resources). Individual items were aggregated and averaged based on the scale they contributed to. Higher scale scores reflect more positive perceptions, whereas lower scale scores indicate poorer perceptions. Student survey items contributing to each scale can be found in Appendix E along with scale reliability estimates. Student results are reported below in Table 30.

Table 30. Student Perceptions: Med. Services, Public Safety and Svcs. (All Programs)

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Perceptions of students in the Medical Services, Public Safety and Services at South Technical High School reflected an improvement on two scales and the same score on the third over the last two years. The largest improvement was in School Climate. Perceptions of students in the Medical Services, Public Safety and Services area at North Technical High School also reflected an increase on all scales. The largest improvements were in School Climate and Quality Learning Environment.
V. Discussion

Strengths for the 2008-2009 School year

North Technical
● Enrollment was 90%+ in 2 programs of 27 programs.
● Retention from the junior to senior program was 90%+ in 4 of 27 programs.
● Program Completion/Graduation was 90+ in 3 of 27 programs.
● Placement was 80%+ in 7 of 27 programs.
● WorkKeys participants have increased over the last year.
● Teacher Perceptions have increased in Instructional Efficacy.
● Student Perceptions have increased in School Climate, Quality Learning Environment and Media/Technology Resources.

South Technical
● Enrollment was 90%+ in 1 of 29 programs.
● Retention from the junior to senior program was 90%+ in 7 of 29 programs.
● Program Completion/Graduation was 90+ in 5 of 29 programs.
● Placement was 80%+ in 8 of 29 programs.
● WorkKeys participants have increased over the last year.
● Teacher Perceptions have increased in Library Resources.
● Student Perceptions have increased in School Climate, Quality Learning Environment and Media/Technology Resources.

Concerns from the 2008-2009 School Year

North Technical
● Enrollment was 60% or less in 2 of 27 programs.
● Program Completion/Graduation was 60% or less in 16 of 27 programs.
● Placement was 60% or less in 5 of 27 programs.
● WorkKeys numbers have increased, but the percentage earning a certificate has declined.
● Teacher Perception of Parental Involvement has declined.

South Technical
● Enrollment was 60% or less in 19 of 29 programs.
● Retention from the junior to senior program was 60% or less in 4 of 29 programs.
● Program Completion/Graduation was 60% or less in 8 of 29 programs.
● Placement was 60% or less in 5 of 29 programs.
● WorkKeys numbers have increased, but the percentage earning a certificate has declined.
● Teacher Perceptions declined in Instructional Setting & Materials and Instructional Efficacy.
Recommendations:

- Continue positive concentration of Admissions Representatives and Marketing Plan on low enrolled programs, especially at South Tech.
- Continue positive efforts to retain students from junior to senior year (i.e.: communication with partner district counselors, and review of four-year plan).
- Continue positive efforts to improve completion/graduation rate (i.e.: formative assessments and Data Team review of student progress).
- For programs with retention to completion rates less than 50%, improve the rate by 10% annually to a minimum of 60% with a goal of reaching 80%.
- Improve placement in programs with rates less than 60% by 20% annually to at least 60% in three years by increasing involvement of advisory committee members and implementation of dual credit programs.
- Continue using the CRC as one aspect of student achievement with the goal of increasing the number of students receiving certificates by 10% at each school with specific improvement in programs with less than 50% of students receiving a certificate.
- Focus on Teacher Perception of Instructional Improvement at South Tech.
- Focus on Teacher Perception of increased Parental Involvement at North Tech.
- Continue with all initiatives contributing to high School Climate, Quality Learning Environment and Media/Technology Resources ratings by students at both schools with particular emphasis on Data Teams, MAX Teaching and e-MINTS initiatives.

Update on Recommendations from 2008 Program Evaluation:

Recommendation followed by Up-dates:

- Re-organize the approach to admissions to reflect the need to promote low enrolled programs. Meet the minimum 10 student enrollment in junior program or consider closing a program
- Admissions Representatives have placed increased emphasis on low-enrolled programs during presentations. Not all programs have benefited, but some (such as Printing and Electronics/Robotics at South Tech and Turf Management at North Tech) have increased.

- Improve placement in programs with rates less than 60% by 20% annually to at least 60% in three years.
- Enrollment, retention, graduation/completion, and placement have all been included in the CTE Advisory Board approved system as portions of the Program Status Indicator (PSI) Scorecard.

- Improve the media and instructional technology resources available to students.
- Five (5) additional faculty are being trained in e-MINTS and additional technology is being provided with Enhancement Grant funding.
- Continue with all initiatives contributing to high climate ratings by students and faculty.
Career Education
Standard Program Evaluation

- Facility improvements and strong instructional supervision have provided students and faculty with an environment that is safe and conducive to learning.

- For programs with retention to completion rates less than 50%, improve the rate by 10% annually to a minimum of 60% with a goal of reaching 80%.
- The new marketing initiative places an emphasis on retention of students. The first staff inservice was conducted on October 16th.

- Continue using the CRC as one aspect of student achievement with the goal of increasing the number of student receiving certificates by 10% at each school with specific improvement in programs with less than 50% of students receiving a certificate.
- While the CRC continues to serve as one indicator of student achievement, more emphasis is being placed on DESE mandated End-of-Course examinations and Perkins mandated Technical Skill Assessments.

Person responsible to champion action plan: Randy Dillon

Timeframe for reporting updates to Board of Education: Annually

____________________________________  Date:_________
Signature of Administrator Responsible for Chairing Evaluation
Appendix A

Detailed Follow-Up Placement Data
## Appendix A – Table 1: North County Technical: Detailed Follow-up Placement Data (Business and Graphics)

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**Appendix A – Table 2: South County Technical: Detailed Follow-up Placement Data (Business and Graphics)**

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## Career Education Standard Program Evaluation

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<td>22</td>
<td>2</td>
<td>7</td>
<td>8</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>47</td>
<td>13</td>
<td>4</td>
<td>16</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>5</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Laboratory/Pharmacy Tech</td>
<td>10</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Law/Domestic Prep.</td>
<td>9</td>
<td>0</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Turf and Landscape Mgt.</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Veterinary Assistant</td>
<td>14</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Appendix B

Career Education: Teacher Survey
The purpose of this survey is to study your perception about your school and program. The results of this survey will help the Technical Education Division to improve educational services and your input is important to the success of this evaluation.

1. Your School.
   - South Technical High
   - North Technical High
   - Bayless High School

2. What program are you teaching? (part I)
   - Automotive Collision Repair
   - Bricklaying & Masonry
   - Carpentry
   - Culinary Arts
   - Diesel Technology
   - Electrical Trades
   - Fashion Design
   - Firefighting/EMT
   - Automotive Technology
   - Broadcast Captioning & Court Reporting
   - Cosmetology
   - Dental Assisting
   - Early Childhood Careers
   - Electronics & Robotics Engineering
   - Financial Services
   - Floor Laying Middle Apprenticeship

3. What program are you teaching? (part II)
   - General Construction Trades
   - Geospatial Technology
   - Graphic Communications: Commercial Art
   - Graphic Communications: Printing Technology
   - Health Sciences
   - HVAC
   - Laboratory/Pharmacy Technician
   - Law/Domestic Preparedness/Security
   - Machining Technology
   - Motorcycle Mechanics
   - Network Administration/Cisco Networking Academy
   - Plumbing
   - Travel and Tourism
   - Turf Management & Landscape Design
   - Veterinary Assistant
   - Web & Computer Programming
   - Welding

4. How frequently do you use the curriculum guide?
   - Daily
   - Monthly
   - Weekly
   - Semi-annually
   - Bi-weekly
   - Annually

5. In the past two years how many professional development activities directly related to improving student performance or instructional improvement have you participated in?
   - 0-2
   - 3-4
   - 5-6
   - 7+

6. I use computers and related technology in my classes.
   - Daily
   - Monthly
   - Weekly
   - Semi-annually
   - Bi-weekly
   - Annually

7. I have received training in the following classroom strategies.
   - MAX Training
   - Ruby Payne
   - eMINTS
   - Senior Projects
   - Instructional System Manager (ISMs)
<table>
<thead>
<tr>
<th>Response Definition: SD=Strongly Disagree  D=Disagree  N=Neutral  A=Agree  SA=Strongly Agree</th>
<th>SD</th>
<th>D</th>
<th>N</th>
<th>A</th>
<th>SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. The Board of Education and the administration have high expectations for student learning...</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>9. The community is proud of this school. ...........................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>10. I think all children can learn. ......................................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>11. Parents believe their children can do well in this program. ......................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>12. Students like attending this program. ............................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>13. This program is a good place to learn. .........................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>14. I really care about my students. ...................................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>15. Teachers talk about student achievement improvement issues on a regular basis. ...........</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>16. There are open channels of communication among students, staff, and administrators. ....</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>17. There are avenues for recognizing and rewarding the accomplishments of my students. ....</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>18. My school provides parents with information about the programs available for students at my school.</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>19. My school provides regular communications to parents about their child's progress. ........</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>20. My school views parents as partners in the educational process. ..................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>21. I provide suggestions to parents on ways to assist at home with their student's learning.</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>22. I have created specific strategies to better involve parents in the education of their child.</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>23. I communicate to students and parents what they are supposed to be learning. ................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>24. I frequently provide information about student performance to parents. ......................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>25. Parents are welcome to discuss their child's educational needs with the school and with me.</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>26. I have a curriculum guide for my program. ...................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>27. My curriculum guide provides me with ways to measure whether students have attained each objective.</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>28. The curriculum guide is useful to me in designing lesson plans. ....................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>29. I teach research skills as an integral part of my instruction. ........................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>30. I teach critical-thinking skills in my program. ..............................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>31. My instructional materials support the curriculum. ......................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>32. Class interruptions are kept to a minimum. ....................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>33. In this program I make learning interesting. ...................................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>34. If students in this program have problems, I will listen and help. ..................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>35. There is good communication between my students and me............................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>36. I hold students accountable for doing quality work. ......................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>37. I use student assessment/performance data to plan my instruction. .................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>38. Students are frequently provided information about their performance. ..........................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>39. I have high expectations for student learning. ...............................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>40. I expect all students to achieve at a high level. .............................................................</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>
### Technical Education Schools Program Evaluation
#### Teacher Survey

**Response Definition:** SD=Strongly Disagree  D=Disagree  N=Neutral  A=Agree  SA=Strongly Agree

41. I have the tools and supplies I need to teach. 
   Response: SD D N A SA
42. The equipment in the program is up-to-date and well maintained. 
   Response: SD D N A SA
43. Overall, my shop/lab/classroom is in good condition. 
   Response: SD D N A SA
44. I have the opportunity to share with the administration what materials are needed in my program prior to the adoption of the budget. 
   Response: SD D N A SA

45. The librarian assists students and staff with individual class projects. 
   Response: SD D N A SA
46. I have input into the selection of library materials. 
   Response: SD D N A SA
47. The library media center materials are current and in good condition. 
   Response: SD D N A SA
48. I have received the training I need to help students effectively use computers. 
   Response: SD D N A SA
49. Technology in my school is considered an integral part of the instruction program. 
   Response: SD D N A SA
50. I use and integrate computers into my program activities. 
   Response: SD D N A SA
51. Access to the Internet in my building is reliable. 
   Response: SD D N A SA
52. Incorporating the Internet into my instructional programs is a high priority. 
   Response: SD D N A SA
53. I have the educational technology I need to support my instructional program. 
   Response: SD D N A SA

54. Students are treated fairly in this school. 
   Response: SD D N A SA
55. Students are friendly to each other. 
   Response: SD D N A SA
56. I treat students with respect. 
   Response: SD D N A SA
57. Students understand what conduct is expected of them. 
   Response: SD D N A SA
58. Rules of conduct for students are consistently enforced. 
   Response: SD D N A SA
59. Students feel safe in this program. 
   Response: SD D N A SA
60. I feel safe at this school. 
   Response: SD D N A SA
61. I make students feel they belong in my program. 
   Response: SD D N A SA
62. Discipline is handled fairly in this school. 
   Response: SD D N A SA

63. The district has provided me with specific professional development opportunities in the development and revision of my curriculum. 
   Response: SD D N A SA
64. The professional development activities I attend are related to district wide instructional improvement. 
   Response: SD D N A SA
65. I am expected by my administrator to participate in professional development activities. 
   Response: SD D N A SA
66. I believe professional development is an integral part of my job. 
   Response: SD D N A SA
67. The professional development activities I have attended have changed the way I teach. 
   Response: SD D N A SA
Appendix C

Teacher Survey: Scale Items and Reliability
Career Education
Standard Program Evaluation

Teacher Survey Scale Items

School Climate (Chronbach’s Alpha = .91)
The community is proud of this school.
Parents believe their children can do well in this program.
Students like attending this program.
This program is a good place to learn.
I really care about my students.
There are open channels of communication among students, staff, and administrators.
There are avenues for recognizing and rewarding the accomplishments of my students.
Students are treated fairly in this school.
Students are friendly to each other.
I treat students with respect.
Students understand what conduct is expected of them.
Rules of conduct for students are consistently enforced.
Students feel safe in this school.
I feel safe at this school.
I make students feel they belong in my program.
Discipline is handled fairly in this school.

Instructional Setting and Materials (Chronbach’s Alpha = .67)
Teachers talk about student achievement improvement issues on a regular basis.
I have a curriculum guide for my program.
My curriculum guide provides me with ways to measure whether students have attained each objective.
The curriculum guide is useful to me in designing lesson plans.
My instructional materials support the curriculum.
Class interruptions are kept to a minimum.
I have the tools and supplies I need to teach.
The equipment in the program is up-to-date and well maintained.
Overall, my shop/lab/classroom is in good condition.
I have the opportunity to share with the administration what materials are needed in my program prior to the adoption of the budget.

Parental Involvement (Chronbach’s Alpha = .82)
My school provides parents with information about the programs available for students at my school.
My school provides regular communications to parents about their child's progress.
My school views parents as partners in the educational process.
I provide suggestions to parents on ways to assist at home with their student's learning.
I have created specific strategies to better involve parents in the education of their child.
I communicate to students and parents what they are supposed to be learning.
I frequently provide information about student performance to parents.
Parents are welcome to discuss their child's educational needs with the school and with me.
Library Resources (Chronbach’s Alpha = .82)
The librarian assists students and staff with individual class projects.
I have input into the selection of library materials.
The library media center materials are current and in good condition.

Professional Development (Chronbach’s Alpha = .89)
The district has provided me with specific professional development opportunities in the development and revision of my curriculum.
The professional development activities I attend are related to district wide instructional improvement.
I am expected by my administrator to participate in professional development activities.
I believe professional development is an integral part of my job.
The professional development activities I have attended have changed the way I teach.

Instructional Efficacy (Chronbach’s Alpha = .90)
The Board of Education and the administration have high expectations for student learning.
I think all children can learn.
I teach research skills as an integral part of my instruction.
I teach critical-thinking skills in my program.
In this program I make learning interesting.
If students in this program have problems, I will listen and help.
There is good communication between my students and me.
I hold students accountable for doing quality work.
I use student assessment/performance data to plan my instruction.
Students are frequently provided information about their performance.
I have high expectations for student learning.
I expect all students to achieve at a high level.

Technology Resources (Chronbach’s Alpha = .84)
I have received the training I need to help students effectively use computers.
Technology in my school is considered an integral part of the instruction program.
I use and integrate computers into my program activities.
Access to the Internet in my building is reliable.
Incorporating the Internet into my instructional programs is a high priority.
I have the educational technology I need to support my instructional program.
Appendix D

Career Education: Student Survey
Technical Education Schools Program Evaluation
Student Survey

The purpose of this survey is to study your perception about your school and program. The results of this survey will help the Technical Education Division to improve educational services and your input is important to the success of this evaluation.

1. Your School.
   - South Technical High
   - North Technical High
   - Bayless High School

2. What program are you in? (part I)
   - Automotive Collision Repair
   - Automotive Technology
   - Bricklaying & Masonry
   -Broadcast Captioning & Court Reporting
   - Carpentry
   - Cosmetology
   - Culinary Arts
   - Dental Assisting
   - Diesel Technology
   - Early Childhood Careers
   - Electrical Trades
   - Electronics & Robotics Engineering
   - Fashion Design
   - Financial Services
   - Firefighting /EMT
   - Floor Laying Middle Apprenticeship

3. What program are you in? (part II)
   - General Construction Trades
   - Geospatial Technology
   - Graphic Communications: Commercial Art
   - Graphic Communications: Printing Technology
   - Health Sciences
   - HVAC
   - Laboratory/Pharmacy Technician
   - Law/Domestic Preparedness/Security
   - Machining Technology
   - Motorcycle Mechanics
   - Network Administration/Cisco Networking Academy
   - Plumbing
   - Travel and Tourism
   - Turf Management & Landscape Design
   - Veterinary Assistant
   - Web & Computer Programming
   - Welding

4. What do you plan to do when you leave high school?
   - Work full-time
   - Attend a 2-year, vocational-technical or business school
   - Attend a 4-year, service academy, or university
   - Serve in the military
   - Other

5. My teacher really cares about me. .................................................................
   - SD
   - D
   - N
   - A
   - SA

6. My teacher thinks I can learn. ..........................................................................
   - SD
   - D
   - N
   - A
   - SA

7. The community is proud of this school. ..........................................................
   - SD
   - D
   - N
   - A
   - SA

8. This program is a good place to learn. ...............................................................
   - SD
   - D
   - N
   - A
   - SA

9. I like going to this school. ..............................................................................
   - SD
   - D
   - N
   - A
   - SA

10. I have been encouraged to establish career or educational goals at school. .......................
    - SD
    - D
    - N
    - A
    - SA

11. If I have a personal problem, I can talk to the counselor. .................................
    - SD
    - D
    - N
    - A
    - SA

12. My counselor has helped me create a plan to reach my educational and/or career goals...........................................
    - SD
    - D
    - N
    - A
    - SA

Response Definition: SD=Strongly Disagree  D=Disagree  N=Neutral  A=Agree  SA=Strongly Agree
<table>
<thead>
<tr>
<th>Question</th>
<th>SD</th>
<th>D</th>
<th>N</th>
<th>A</th>
<th>SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>13. My parents have a good idea of what goes on at school.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>14. My family believes that I can do well in this program.</td>
<td></td>
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<tr>
<td>15. The class I have at school covers material that is important to me.</td>
<td></td>
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</tr>
<tr>
<td>16. My teacher makes clear to me what I am supposed to learn.</td>
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</tr>
<tr>
<td>17. My teacher is organized and well prepared to teach.</td>
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<tr>
<td>18. My teacher informs me about my progress in class.</td>
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<tr>
<td>19. My teacher makes learning interesting.</td>
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<tr>
<td>20. I am given opportunities to work and learn independently.</td>
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</tr>
<tr>
<td>21. My teacher wants me to contribute my thoughts in class.</td>
<td></td>
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</tr>
<tr>
<td>22. In my program all students are given a chance to succeed.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>23. In my program there is good communication between the teacher and students.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>24. If a student has a problem the teacher will listen and help.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25. Class interruptions are kept to a minimum.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26. My program provides me with the textbooks, tools, supplies, and learning materials I need to learn.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27. The equipment in this program is up-to-date and well maintained.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28. My classroom/shop/lab is in good condition.</td>
<td></td>
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</tr>
<tr>
<td>29. My teacher expects very good work from me.</td>
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<td></td>
</tr>
<tr>
<td>30. My teacher is a good teacher.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>31. I use computers in my program.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>32. I know how to find information I need to complete class projects.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>33. My teacher can assist me in using computers effectively.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>34. I know how to use electronic resources to locate information.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>35. I can get access to the Internet at school when I need it.</td>
<td></td>
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<tr>
<td>36. The library has up-to-date resource materials.</td>
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<td>37. I feel safe in my program.</td>
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<td>38. I have a feeling of belonging in my program.</td>
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<td>39. Students in my program are friendly.</td>
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<td>40. My teacher treats me with respect.</td>
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<td>41. I am treated fairly in my program.</td>
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<td>42. Discipline is handled fairly in this school.</td>
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Appendix E

Student Survey: Scale Items and Reliability
Career Education
Standard Program Evaluation

**Student Survey Scale Items**

**School Climate (Chronbach’s Alpha = .87)**
My teacher really cares about me.
The community is proud of this school.
This program is a good place to learn.
I like going to this school.
If I have a personal problem, I can talk to the counselor.
I feel safe in my program.
I have a feeling of belonging in my program.
Students in my program are friendly.
My teacher treats me with respect.
I am treated fairly in my program.
Discipline is handled fairly in this school.

**Quality Learning Environment (Chronbach’s Alpha = .93)**
My teacher thinks I can learn.
I have been encouraged to establish career or educational goals at school.
My counselor has helped me create a plan to reach my educational and/or career goals.
My parents have a good idea of what goes on at school.
My family believes that I can do well in this program.
The class I have at school covers material that is important to me.
My teacher makes clear to me what I am supposed to learn.
My teacher is organized and well prepared to teach.
My teacher informs me about my progress in class.
My teacher makes learning interesting.
I am given opportunities to work and learn independently.
My teacher wants me to contribute my thoughts in class.
In my program all students are given a chance to succeed.
In my program there is good communication between the teacher and students.
If a student has a problem the teacher will listen and help.
Class interruptions are kept to a minimum.
My program provides me with the textbooks, tools, supplies, and learning materials I need to learn.
The equipment in this program is up-to-date and well maintained.
My classroom/shop/lab is in good condition.
My teacher expects very good work from me.
My teacher is a good teacher.

**Media and Technology Resources (Chronbach’s Alpha = .78)**
I use computers in my program.
I know how to find information I need to complete class projects.
My teacher can assist me in using computers effectively.
I know how to use electronic resources to locate information.
I can get access to the Internet at school when I need it.
The library has up-to-date resource materials.