

Kettle Moraine High School Technical Diploma Pilot



**KETTLE MORaine SCHOOL DISTRICT
IN COLLABORATION WITH
SECOND CHANCE PARTNERS FOR EDUCATION
WAUKESHA COUNTY TECHNICAL COLLEGE
AND
COMMUNITY BUSINESS PARTNERS**

AUGUST 20, 2012

Kettle Moraine's Mission

The purpose of our district is
to

***cultivate academic
excellence,
citizenship, and
personal development***



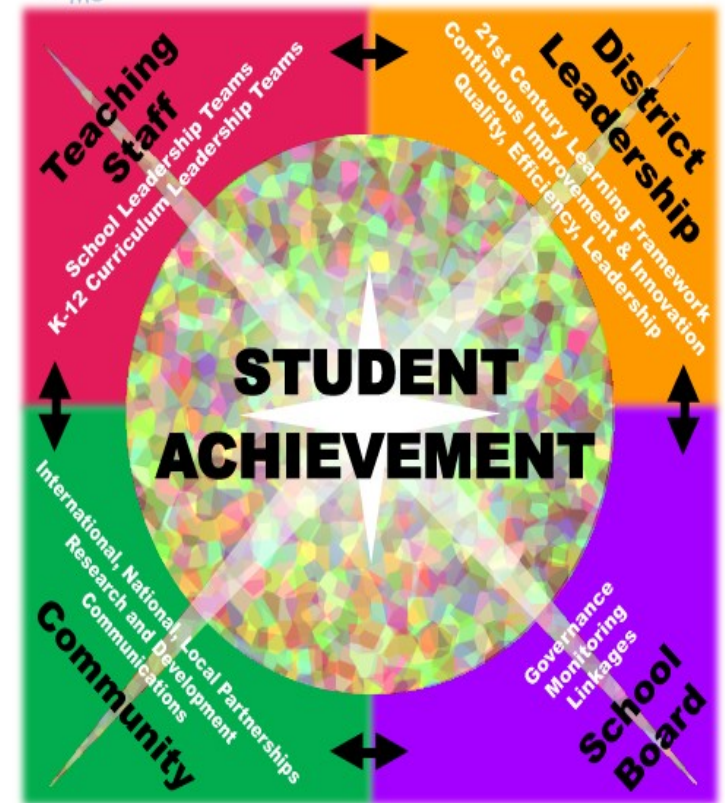
Our Vision

The vision of our district is

***Learning
without
Boundaries***



LEARNING WITHOUT BOUNDARIES



Return on Investment

2011-12 School Year

- KMHS ranks in top 10 WI schools, top 500 in nation
— NewsWeek magazine
- Third in Student Attainment among 50 Largest WI School Districts — MacIver Institute
- ACT scores 23.8 — 313 students
- AP participation -363 students, 702 exams taken, pass rate at 65%.
- Two charter schools implemented; one planning grant
- 3 Herb Kohl Fellowship winners; 1 Herb Kohl Scholar
- 16 NBPTS teacher; 1 new doctorate

Big Question

In times of economic uncertainty,
how can we maintain the
high levels of quality education our
community has come to expect?

January – March, 2005

Directive from the Board

**Transform
the educational delivery system
to better and more efficiently
meet the needs of all students.**

May, 2005

Realization

The ‘threats’ to our current system of education are more than *just* economic.

Trends in demographics, generational issues, technology, and globalization will have a tremendous impact on shaping the future of education.

Personalized Learning

Personalized learning that occurs ***anytime, anywhere***, and results in ***world-class knowledge and skills*** for all students.

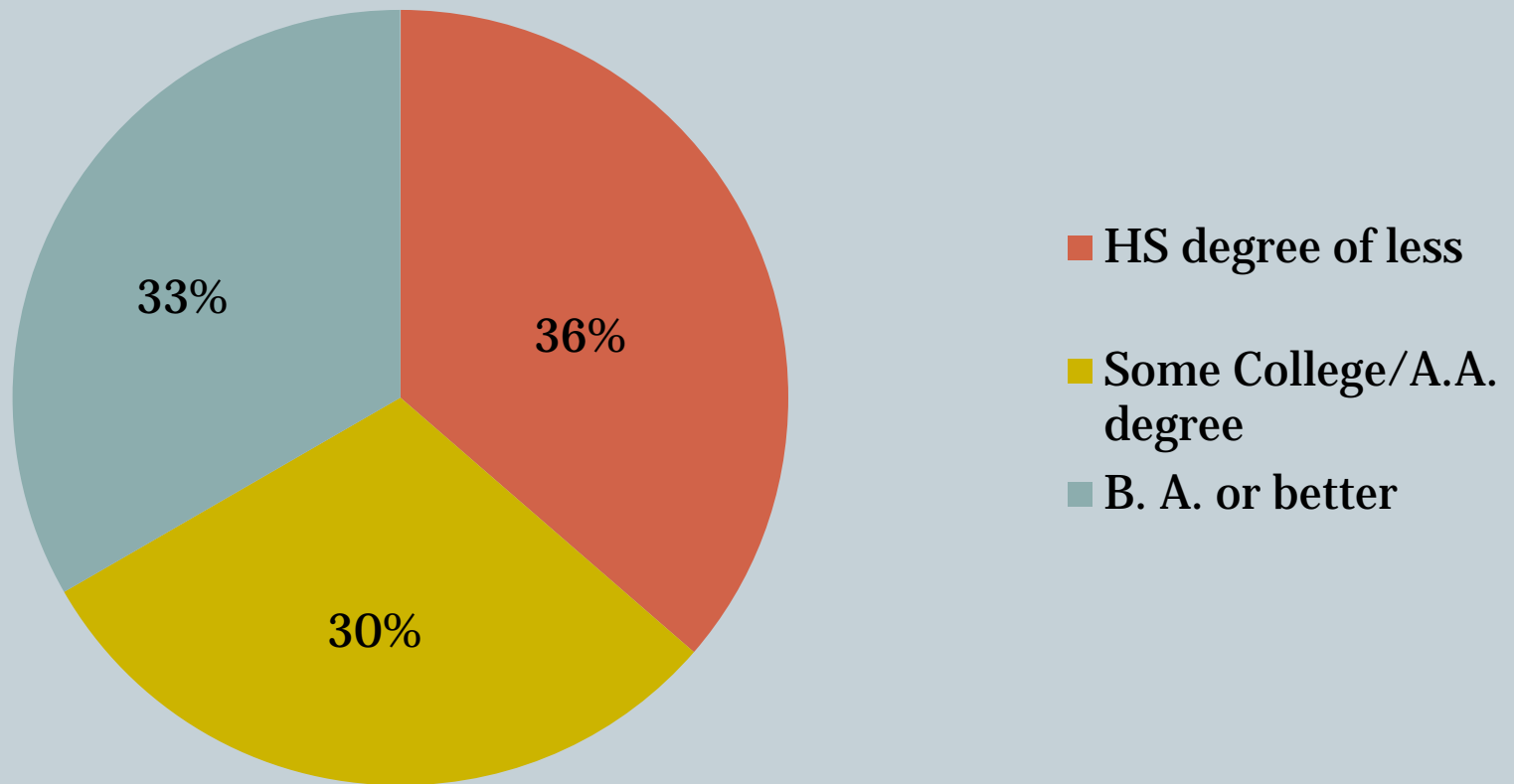
Measured through ***performance-based assessments***.

Engaging students' own ***voice*** and providing a ***comprehensive system of supports***.

Harvard's *Pathways to Prosperity*



Educational Demand to 2018



Source: March CPS data, various years; Center on Education and the Workforce forecast of educational demand to 2018.

Business Community Needs

Milwaukee Journal Sentinel – August 6, 2012

**“Jason, Inc. positions itself to soar -
CEO says more kids need exposure to skilled trades”**

A Manufacturer's Ideal High School Graduate & Potential Employee

Top Ten Technical Skills:

- Mathematics including algebra, geometry and trigonometry
- Blue print/schematic reading
- Computer literacy
- Read & use a ruler, calipers and measuring devices
- CAD/CAM/BMI/design software
- Creativity – understanding methods to be creative and innovative
- Commitment to safety
- Mechanically inclined/understand mechanics
- Basic manufacturing equipment & processes knowledge
- Basic quality concepts/Six Sigma

Top Ten Employability Skills:

- Showing up for work on time, every day, ready to work
- Communication skills – written, verbal, listening
- Problem solving – root cause analysis
- Self-motivated
- Personal accountability
- Positive attitude
- Life-long learner
- Willingness to do/try new things
- Need for continuous improvement
- Team player/ Ability to work in teams/collaborate

Second Chance Partners Mission

To create partnerships between local businesses and education to meet the needs of a growing population of non-traditional high school learners.

These partnerships will offer an educational program that provides students with an opportunity to earn their high school diploma through an integrated learning experience, linking academic standards with real world applications.



Our Pilot Model for 2012-13

- Build interest in Student and Parent Community
- Establish an Education Center at a partner company
 - 1 full-time state-certified teacher
 - Instructing 16 students (8 Juniors / 8 Seniors)
 - Working with 2 partner businesses
 - Program run by SCPFE and supported by KMHS and WCTC staff

Results:

****Diploma with Associate Degree credits***

****Transcript with manufacturing focus***

****Workforce Readiness Skills***



Our Plan – 2013 and beyond

- Continue the new model with an Education Center at partnering companies
 - 1 full-time state-certified teacher and part-time technical education teacher per cohort
 - Instructing average cohorts of 16 students (8 Juniors / 8 Seniors)
 - Expand number of partner businesses and districts
 - Future development by SCPFE and supported by school districts and technical college staff

Results: *High School Diploma with Technical Certificate(s)

****Transcript with Associate Degree credits***

****Scholarship funds to assist with post-Secondary Education***

****Workforce Readiness Skills***



Program Specifics

- Students with interest in applied learning experiences
- Students earn their high school diploma and a paycheck, with scholarship money for future education
- Off campus learning: 5 days/week, 8 hours/day
- 4 hours production, 4 hours class time daily
- Participation in extra-curricular activities available
- 4 consecutive semesters, September – May
- Students rotate within and between companies



Integrated Learning Experience

Core Academics

Math ♦ Science ♦ Social Studies ♦
Communications ♦ Financial Literacy

Information Technology

Information and Communications
Technology (ICT) Literacy

Workforce Readiness

- ✓ Communication Skills
- ✓ Creativity and Innovation Skills
- ✓ Collaboration Skills
- ✓ Critical Thinking and Problem Solving

Manufacturing Skills

- ✓ *High Performance Manufacturing By*
MSSC
- ✓ Computer-Aided Design – ProE
- ✓ Blueprint Reading

Character Development

- Leadership ♦ Ethics ♦ Accountability ♦
Adaptability ♦ Personal Responsibility
♦ Social Responsibility



Education +	Business =	Changed Lives
Stronger Schools	Stronger Businesses	Stronger Community
<ul style="list-style-type: none"> • Student Retention • Increased Options • Cost Effective • Enhanced Business Alliances • Increased Educator Awareness 	<ul style="list-style-type: none"> • Direct Involvement in Education • Future Workforce Development • Increased Corporate Citizenship • Job Enrichment • Value Added Services 	<p><u>Students:</u></p> <ul style="list-style-type: none"> • High School Graduates • Focused Career Plans <p><u>Parents:</u></p> <ul style="list-style-type: none"> • Vision for future • Expansion of career opportunities

Post Graduate Pathways

Graduates will be:

- Workforce ready with real world hands-on experience
- Prepared to fast track to an Associate Degree in manufacturing, engineering and technical fields
- Options available to continue on in a four-year program
- More decided in their career pursuits, having been exposed to manufacturing pathways and multiple career options



Mission and Vision of WCTC

Vision

Waukesha County Technical College is the leader in workforce development, preparing learners for success within the regional and global economy.

Mission

WCTC provides accessible career and technical education to strengthen our community through life-long learning.



WAUKESHA
COUNTY TECHNICAL
COLLEGE

School of Applied Technologies

➤ **20 Degree/Diploma Programs**

- Manufacturing, Engineering, Transportation, Construction and Graphic Communications related careers

➤ **10 Apprenticeship Programs**

- Manufacturing and Construction



WAUKESHA
COUNTY TECHNICAL
COLLEGE

Vital Statistics

Contract Training

- 35 Contracts
- 15 Companies (GE, Harley-Davidson, Cooper Power)
- 350 Employees Enrollments

Transcripted Credit/Dual Enrollments

- 14 High Schools
- 152 sections (Manufacturing, Auto, Carpentry, Drafting, Electronics)
- 3893 High School Enrollments



Graduate Success

92% Employed or Continuing Education within 3 months of Graduation

Degree/Diploma with Highest Average Salary

- Automation Systems.....\$64,560.00
- Industrial Maintenance.....\$44,322.00
- Mechanical Design.....\$49,362.00
- Tool & Die Making.....\$43,555.00
- Truck Driving.....\$39,900.00



Graduate Success

Apprenticeships with highest average salaries

- Plumbing ABC Apprentice.....\$65,816.00
- Maintenance Mechanic/Millwright.....\$62,917.00
- Environmental Service Apprentice.....\$62,518.00
- Industrial Electrician.....\$59,927.00
- Electrician Apprentice (ABC).....\$57,392.00



New Programs/Modifications

AAS Programs

- General Manufacturing
- Automotive Technology – Toyota T-TEN (Fall 2011)
- HVAC (Fall 2012)
- Advanced Manufacturing (Fall 2012)

Curriculum Modifications

- Industrial Maintenance
- Machine Tool Operation
- Tool & Die
- Mechanical Design
- Electronics



Partners for Student Success

Program Advisory Committees

- 24 Committees
- Over 300 Members

Educational Partners

- Industry Partners
- Public Sector/Government Partners
- High Schools and Colleges



What is Needed for Success

- Less regulation
- More autonomy
- Research and Development support
- Incentives for business partnerships