



THINK YOU KNOW EVERYTHING ABOUT SKILLED TRADES? **THINK AGAIN!**

MICHIGAN

Michigan Career and Technical Educational Conference
February 1, 2016



SKILLED TRADE OCCUPATIONS

Jobs that require more than a high school diploma but less than a four-year college degree

Significant portion of Michigan's labor market, including:

ADVANCED MANUFACTURING

HEALTH CARE

INFORMATION TECHNOLOGY

SALES & MARKETING

CONSTRUCTION

TRANSPORTATION

ENERGY



SKILLED TRADE MYTHS

THERE'S NO DEMAND FOR SKILLED TRADE WORKERS

SKILLED TRADES ARE LOW PAYING

SKILLED TRADES ARE DIRTY AND DANGEROUS

SKILLED TRADES ARE LOW SKILL



THERE'S NO DEMAND FOR SKILLED TRADE WORKERS

FALSE

Michigan's unemployment rate continues to fall - - jobs still going unfilled

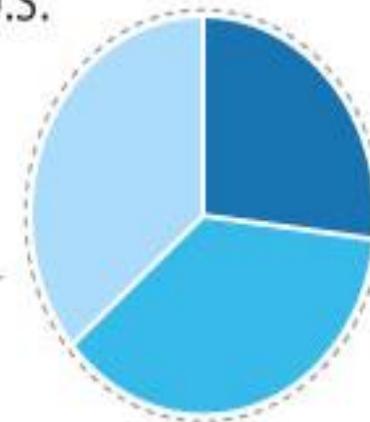
Skilled trade workers represent exactly the types of skills that employers are demanding

- 1/3 of state's employment base
-- 8,300 jobs currently available
- 6,700 jobs will be open every year from now until 2022

New jobs in the U.S.

MIDDLE-SKILL JOBS, REQUIRING SOME POST-SECONDARY EDUCATION BUT LESS THAN A BACHELOR'S DEGREE, ARE EXPECTED TO MAKE UP THE LARGEST SHARE OF NEW JOBS.

**NEW JOBS CREATED
2013 TO 2017:**



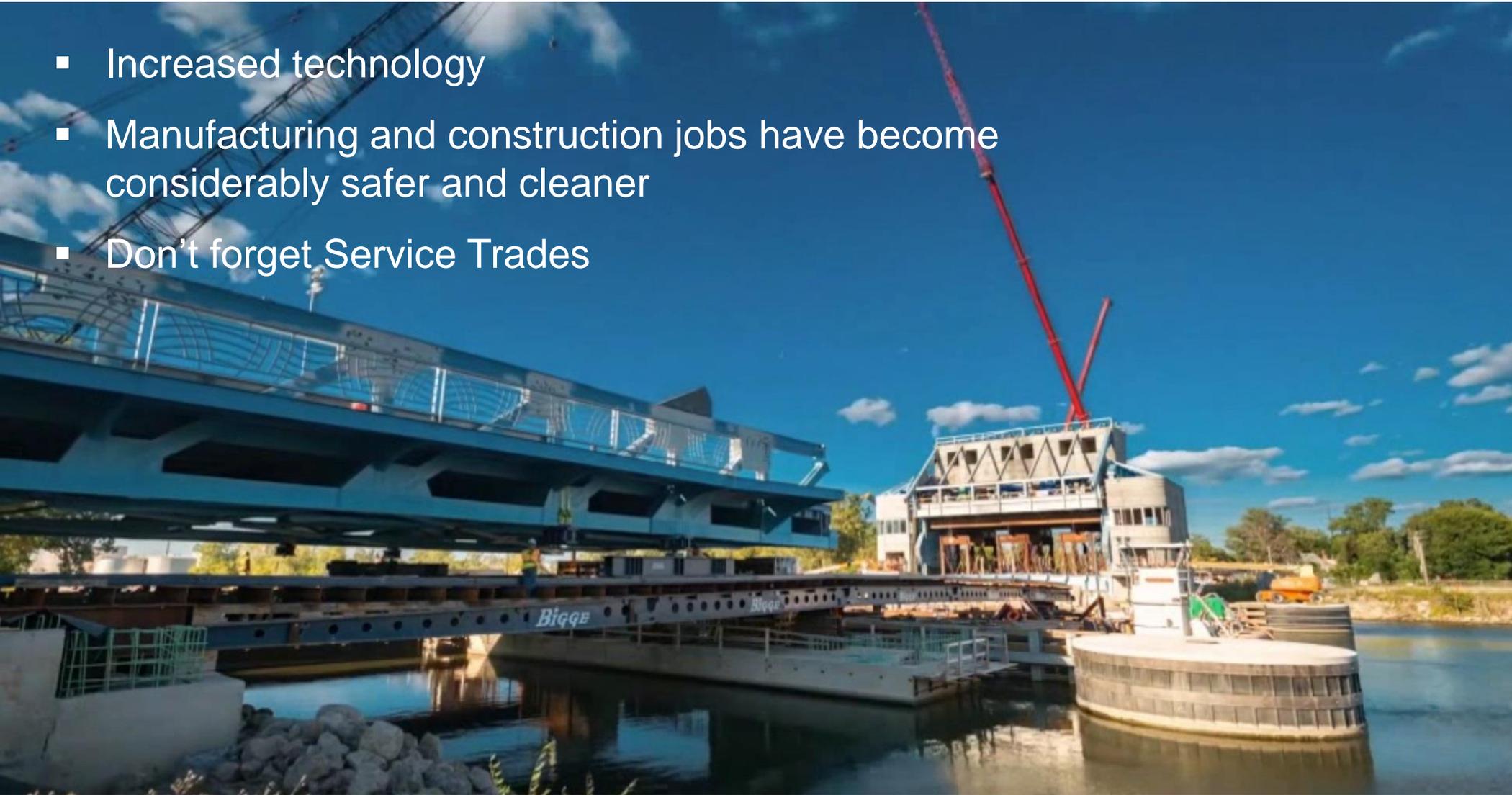
- HIGH-SKILL
(1,825,655) 27%
- MIDDLE-SKILL
(2,504,773) 37%
- LOW-SKILL
(2,460,020) 36%

Sources Economic Modeling Specialists Intl., CareerBuilder
FRANK POMPA, USA TODAY

SKILLED TRADES ARE DIRTY & DANGEROUS

FALSE

- Increased technology
- Manufacturing and construction jobs have become considerably safer and cleaner
- Don't forget Service Trades



SKILLED TRADES ARE LOW PAYING

FALSE

- Pay between \$13/hr. & \$34/hr.
- Pay ceiling higher for white collar
- Median higher for blue collar
 - The range for the skilled trades (per hour) is \$13-\$34, for a median of \$21/hour.
 - For all other occupations, the range is \$8-\$39, for a median of \$16/hour.



SKILLED TRADES ARE LOW SKILL

FALSE

- About 50 % of all STEM jobs are open to workers with credentials < a bachelor's degree
- Rigorous classroom and on-the-job training as well as an understanding of:
 - mathematics
 - complex problem solving
 - complex equipment operation
 - how to maximize efficiency



MANY DIFFERENT PATHWAYS TO SKILLED TRADES JOBS

	Associate's degree	Vocational certificate	Apprenticeship
Time to complete	Two years, full time	Up to a year	Two to four years
Availability	Community college	Community college, community-based organization, technical school, workplace	Partnership between unions and employers
Examples of types of jobs	Radiation therapist, licensed practical nurse, computer specialist	Dental assistant, legal assistant, auto mechanic, firefighter	Electrician, aircraft mechanic, plumber

MI-AIM

- MI-AIM (Michigan Apprenticeships, Internships, Mentoring):
The Path to Work-based Learning Career Opportunities in Michigan
- Provides a comprehensive outreach and communications strategy, resources and technical assistance with the 'aim' of creating more RAs, especially in non-traditional occupations, while promoting additional types of work-based learning
- Website: www.michigan.gov/miaim



The screenshot shows the top portion of the Michigan Workforce Development Agency website. At the top right, there are navigation links for "WDA Home", "TIA Home", and "Contact Us", along with a "MI.gov" link and a small map of Michigan. Below this is a large banner featuring the Michigan WDA logo on the left, which includes a green outline of the state and the text "Michigan WDA". To the right of the logo is the text "Michigan Workforce Development Agency" and "Department of Talent and Economic Development". In the center of the banner is a group of diverse people standing together. On the right side of the banner is a search bar with the word "Search" and a magnifying glass icon. Below the banner is a dark navigation bar with "About Us" and "Programs and Services" on the left. On the right of this bar are icons for email, Facebook, and Twitter. Below the navigation bar is a breadcrumb trail: "WORKFORCE DEVELOPMENT AGENCY / EDUCATION AND TRAINING / REGISTERED APPRENTICESHIP".

PARTNERS

MICHIGAN WORKS! AGENCIES
EDUCATION AND TRAINING PROVIDERS
GOVERNMENT AGENCIES
EMPLOYERS
INDUSTRY ASSOCIATIONS
LABOR ORGANIZATIONS
COMMUNITY-BASED ORGANIZATIONS



WORKGROUPS

- American Apprenticeship Initiative Advisory Group
 - Michigan Apprenticeship Success Network
- Promotion & Outreach
 - Skilled Trades Website and
- Funding & Resources
 - Guide



PROMOTION & OUTREACH

www.mitalent.org/skilledtrades

Newsletters | Career Events | About Us | Contact Us | A- | A+ | Sign In | Create Account

PURE MICHIGAN® Talent Connect

Home | Job Seeker | Employer | Career Explorer | Veteran

Career Exploration | Skill Assessment | Skill Development | Career Jump Start | Skilled Trades

Skilled Trades

Home > Career Explorer > Skilled Trades

Think you know everything about skilled trades?
Think again.



Watch Tom's Videos

K / 5th Tom Daldin talks to children about early curiosities and skilled trades



Watch Mike's Videos

6th / 12th Mike Rowe talks to young adults about skilled trades

Today's skilled trades are the hot jobs that are growing and evolving. Advanced manufacturing. IT. Construction. Healthcare. Did you know skilled trades:

- Are some of the most in-demand jobs posted online? More than 8,300 skilled trade jobs are currently available in Michigan.
- Provide opportunities that will continue to grow? More than 6,700 job openings are expected every year, through 2022.
- Don't necessarily require a four-year degree?

Skilled Trade Myths

- **There's No Demand For Skilled Trade Workers**
False! Skilled trade workers represent exactly the types of skills that employers are demanding.

Kindergarten / 5th Grade

Find out how to encourage a child's interest in skilled trades.

LEARN MORE ►

6th / 12th Grade

Explore hot career paths and apprenticeship opportunities.

LEARN MORE ►

Parents & Educators

Find resources to help you guide children and youths through skilled trades explorations.

LEARN MORE ►

Check back often!

We continue to add information and resources on a regular basis.

+ Feedback about this page?

DISCUSSION: K-5 CONTENT

Career Exploration | Skill Assessment | Skill Development | Career Jump Start | Skilled Trades

Kindergarten Through 5th Grade

Home > Career Explorer > Skilled Trades > Kindergarten Through 5th Grade



Watch Tom's Videos

K
5th

Tom Daldin talks to children about early curiosities and skilled trades

"What would your factory manufacture?"

- ✓ "Cars"
- ✓ "Medicines"
- ✓ "Hair brushes"
- ✓ "Candy"
- ✓ "Robot Pokémon"

Tom Daldin, the Emmy award-winning host of the PBS series "Under the Radar," talks to children about their creative interests as he explains how these early curiosities can be transformed into potential skilled trades.

Building a Child's Interest

An early childhood curiosity can turn into a lifelong career path. Creative play centered around building, demolition, sorting, measuring, weighing, digging, and other activities may lead to a skilled trade path.



- In 1948, Yale Medical School student William Sewell used Erector® set pieces to create the first artificial heart pump?
- Apple co-founder Steve Jobs' dad showed him how to take apart and rebuild electronics such as radios and televisions as a kid?
- Considered America's greatest architect of all time, Frank Lloyd Wright spent much of his childhood playing with geometrically-shaped blocks his mother bought him...
- ...and his son invented Lincoln Logs®?



Tom Daldin Talks
Manufacturing

https://www.youtube.com/watch?v=vJxNEhd_IAg

DISCUSSION: 6-12 CONTENT

Career Exploration | Skill Assessment | Skill Development | Career Jump Start | ► Skilled Trades

6th-12th Grade

Home > Career Explorer > Skilled Trades > 6th-12th Grade



Watch Mike's Videos

6th / 12th Mike Rowe talks to young adults about skilled trades

"If you love working with your hands, and you want to love the career you're getting into, [a] tool and die [skilled trade] is a great route to go."

Creator of TV's *Dirty Jobs* and *Somebody's Gotta Do It*, trade advocate Mike Rowe presents straight talk about skilled trades—careers that "make things that make civilized life possible." Watch and listen as workers themselves explain their in-demand, technical jobs.

Did you know skilled trades:

- Expect more than 6,700 job openings every year through 2022?
- Pay hourly wages ranging from \$12 to \$34?
- Have room for more women and minorities, especially in STEM (Science, Technology, Engineering and Math) fields? For example, about 76 percent of STEM jobs in the U.S. are held by men.
- Can be attained with varying levels of post-high school education and training, including certifications, two-year associated degrees and four-year degrees?



Advanced manufacturing. Construction. Information Technology (IT). Healthcare. Explore these growing and expanding career paths.

► **Advanced Manufacturing**

Michigan Skilled Trades



HOME

Kindergarten / 5th Grade

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Mike Rowe
Talks Healthcare
<https://www.youtube.com/watch?v=jiewAs-ZqNE>

DISCUSSION: PARENTS/EDUCATORS

K
5th Tom Daldin talks to children about early curiosities and skilled trades

6th
12th Mike Rowe talks to young adults about skilled trades

While in high school, Mike Rowe, host of *Dirty Jobs*, saw a poster in his guidance counselor's office that read "Work Smart, Not Hard." He hated it so much, he changed it to "Work Smart AND Hard" and has them printed to influence the way hard work is perceived.

Parents and educators – your roles in your student's career choices are just as important as other support system influencers. Your knowledge and encouragement can go a long way in helping students find their way in today's workplace.

Did You Know?

- A skilled trade could provide life-long job security?
- For school years 2011 through 2013, the high school graduation rate for Michigan career and technical education students was 95 percent?
- About 50 percent of all STEM (Science, Technology, Engineering and Math) jobs are open to workers with credentials less than a bachelor's degree?

Michigan has many opportunities for students and workers to get involved in apprenticeships and work based learning opportunities. If you are interested in learning how apprenticeships and work based learning opportunities can influence one's skills and competencies, create on-the-job training opportunities, result in an occupational focused education and create the potential for career advancement be sure to visit the [state of Michigan's website](#).

Resources:

- [Explore skilled trades](#)
- [Training programs for students / kids interested in pursuing a skilled trade](#)
- [Career and Technical Education \(for educators\)](#)
- [Learn About Apprenticeships and Work Based Learning Opportunities](#)

Kindergarten / 5th Grade

Find out how to encourage a child's interest in skilled trades.

[LEARN MORE](#) ▶

6th / 12th Grade

Explore hot career paths and apprenticeship opportunities.

[LEARN MORE](#) ▶

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<http://www.mitalent.org/skilled-trades-parents-and-educators/>

“NOT ALL KNOWLEDGE COMES FROM COLLEGE, BUT SKILL IS A MATTER OF DEGREE”

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QUESTIONS?

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