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Westosha Central High School STEM Aviation Program

Westosha Central High School

Our STEM Aviation Program provides aviation education to high school students in grades 9–12, with 12 to 18 students participating per year. We started by building Falcon 1 in October 2014 and finished exactly 1 year, 1 month and 1 day from the time we set the first rivet. Falcon 1 has recently been sold and that money will go back into the foundation to support the purchase of our third aircraft. The students' second plane, the F2 Talon, was completed in October and on November 21st it passed FAA inspection. Congratulations to all involved!

Page 5

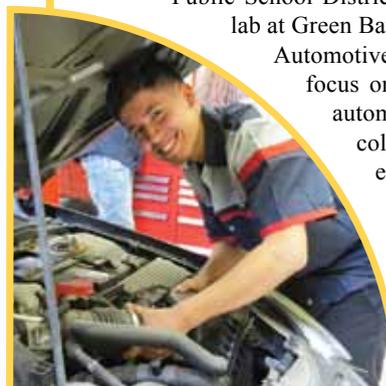


City Stadium Automotive

Green Bay Area Public School District

Recognizing the need for a skilled automotive workforce, the Green Bay Area Public School District (GBAPS) expanded the automotive technician lab at Green Bay East High School in 2015 to form City Stadium Automotive. Students enrolled in City Stadium Automotive® focus on the diagnosis and troubleshooting of faults in automotive systems while receiving high school and college credit. Students now have the opportunity to earn up to 27 college credits and a one-year technical diploma over the course of their junior and senior year as part of the Automotive Maintenance Technician (AMT) program

Page 8

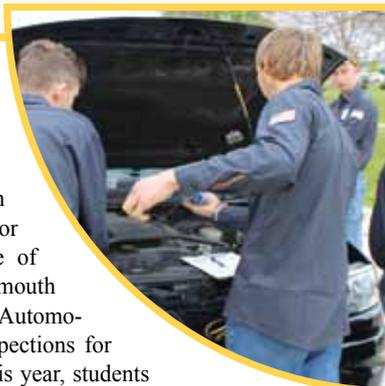


Plymouth Students Conduct Vehicle Inspections

Plymouth School District

As winter approaches each year, Plymouth High School automotive students provide senior citizens and disabled people with some peace of mind. Through an initiative sponsored by the Plymouth Police Department for the past 22 years, the PHS Automotive Technology class conducts free vehicle inspections for disabled drivers and those ages 60 and older. This year, students inspected 29 vehicles Oct. 24 at the school. Before this year's inspections, students practiced customer service and communication skills so that they could discuss procedures and issues with vehicle owners.

Page 10



Beloit Memorial High School Automotive Program

School District of Beloit

Beloit Memorial High School's automotive program is a NATEF certified program focused on not only technical skills but also has a strong emphasis on the soft skills that young men and women need in order to be successful in the workforce, regardless of the career path that they choose. The Automotive Program also offers apprenticeships to those students who are interested in careers in automotive repair or the automotive industry

Page 11



More on Page 3

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PHS Formula Cars Take 1st, 2nd at Road America

Plymouth School District

First place in the Modified Class went to the new PHS car 77, which averaged 43.97 seconds, the second-fastest time in any class. The team driving car 66, built last year, averaged 45.41 seconds to finish second in Modified and third overall. The cars were designed, built and raced by members of the PHS Tech Club, created a few years ago as an umbrella extracurricular for tech ed-related projects.

Page 10



“Lifelong Learners:” Grafton High School Prepares Students For Auto Tech Industry

Grafton School District

Two Grafton High School students placed fourth at the National Automotive Technology Competition in New York. Sixty high school students representing each region of the county competed for the top prize. Teams of

two put their automotive repair skills to the test. They had three hours to diagnose and repair a car. “If you get in the top five in the country, that’s amazing,” said Carl Hader, automotive instructor

Page 12

Students Create, Film, Produce Distracted Driving PSA Through Wisconsin DOT

Indian Community School Milwaukee

She needed a boost to see over the podium outside Wausau’s State Patrol post on Tuesday morning, but Arianna Fuller expected her message to come across loud and clear: put the phone down. The Department of Transportation’s Inter-tribal Task Force chose Fuller’s Indian Community School from the Milwaukee area to put together a public service announcement on a roadway safety issue. The students agreed on covering distracted driving, then brainstormed, wrote, and filmed the ad all in one busy school day.

Page 15



A Brand New Facility for Cudahy High School Automotive Technology Program

School District of Cudahy

The automotive technology program at Cudahy High School has an updated home. Over the summer of 2017 the entire auto shop was renovated, resulting in a state of the art facility that has led to additional course offerings and increased enrollment to meet students’ interests and vocational needs. Prior to the renovation, the outdated equipment and inefficient use of space did not allow students to make a smooth transition from their school experience to the workplace. Now, the new structure and components are the same as those found in local professional auto shops.

Page 14



Shawano Shows Off Their Cars

Shawano School District

SCHS hosted a car show at the high school to showcase cars that people own throughout the community on Friday, May 18. While seeing the cars is a fun experience for students, they also learn a few things from viewing the cars. The students are able to use their knowledge about cars to enjoy the wide variety that is spread out for the day. The show brings in members from all over the community and grabs their attention with shiny cars. The event also raises funds for the school through different vendors and stands.

Page 13

Your Career Aspirations and the Steps You Need to Take to be Successful in the Aviation Industry or any Industry!

Ken Polovitz
Assistant Dean, Student Services
John D. Odegard School of
Aerospace Sciences

It appears easy enough:

- Begin solidifying your career aspirations (what you want to be when you grow up!) generally during your high school years.
- Work hard in high school to build a strong academic and social foundation to prepare you for the rigors of postsecondary education.
- Begin your college search based on a number of variables but certainly those schools that have the major you are seeking to launch your career.
- Select a college or technical school.
- Challenge yourself academically and graduate in a major that prepares you for a job that begins your career.

If it was only that simple!

These steps seem straight forward enough. However, all the variables attached to each of these make for some of the most complex and important decisions a young

person will make in a lifetime! I'd like to focus on the first and fifth steps and offer some insights I have observed from almost 40 years of advising prospective and currently enrolled students pursuing a career in aviation. However, regardless of the specific profession, it's important that students thoroughly explore what needs to be accomplished to successfully get from step one through step five.

Many students select a specific career because they think it would be fun, financially rewarding, prestigious or because the job opportunities are numerous. Certainly, these are all good reasons to consider when identifying any career. But once again, these "reasons" need to be thoroughly explored. For example, just because a career may pay well, doesn't mean it will result in a meaningful fit for you as an individual. Students need to thoroughly and carefully analyze all the variables that make up a successful and enjoyable career. In other words, it needs to get "personable".

Currently, and for the foreseeable future, career opportunities within the aviation industry are wide open. Whether it's professional flight, air traffic control, management and technical positions or the ever emerging fields of unmanned aircraft systems, the need for



qualified people is greater than it's ever been. Since the job opportunities within the aviation industry are so in demand, does that mean a student preparing for a career in aviation can "throttle back" because the demand for them is so great? Absolutely not!!

Regardless at what level a student is at with preparation for entering the career, they still need to work extremely hard, stay focused and not take shortcuts or skip any step that is needed to get them from point A to point B

successfully. Employers are not going to hire candidates that haven't built a strong foundation on to which erect a successful career. The "choice" careers will always be competitive.

Begin in earnest identifying how you are going to successfully navigate through all the variables within these five steps. If you do and stay committed to reaching your career goal, you will be successful. Best wishes with your journey!

2019 Aviation Art Contest "My Dream to Fly"

The International Aviation Art Contest is now underway. The Bureau of Aeronautics at the Wisconsin Department of Transportation, in partnership with the National Association of State Aviation Officials (NASAO), invites students to create a work of art that depicts where their imagination takes them when they look to the clouds.

This year's theme focuses on "My Dream to Fly."

Grab your favorite art supplies and turn your imagination loose. Do you dream of joining your friends in a specially designed helicopter that allows you to see your neighborhood, city or countryside? Do you envision a race to the border of space with jet powered planes going faster and higher than ever before? Maybe it's a specially-designed hot air balloon or spectacular hang glider. Show us how you dream to fly.

Entries will be judged on the creative use of the theme. The top three entries, in each age group, receive a Certificate of Achievement and advance to the National Aviation Art Contest in Washing-

ton, D.C., where they compete nationally against other winners from the U.S. for the right to advance to the international competition. The top three entries and an honorable mention for each group also will be displayed in the Wisconsin State Capitol Rotunda.

All entries must be postmarked by Friday, January 18, 2019.

Entries should be mailed with the Authenticity Certificate included in the brochure to:

Meredith Alt
WisDOT — Bureau of Aeronautics
4822 Madison Yards Way
5th floor, South
Madison, WI 53707-7914

Contact: Meredith Alt, Aviation Education Program Manager, Bureau of Aeronautics, (608) 266-8166, meredithl.alt@dot.wi.gov

Website: wisconsindot.gov/Pages/doing-bus/aeronautics/education/art.aspx

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Westosha Central High School STEM Aviation Program

Westosha Central High School District of Westosha

Our STEM Aviation Program provides aviation education to high school students in grades 9–12, with 12 to 18 students participating per year. We have a workshop at Westosha Central High School in Paddock Lake, Wisconsin. Students gather weekly in this dedicated space for meetings, build sessions, and ground school.

Our first project was the building of a Van's RV-12 airplane. Westosha Central High School is one of a handful of participating high schools across the nation. The Central High School STEM Aviation Program provides students a unique, inspiring, and empowering STEM (science, technology, engineering, and mathematics) education experience. Our program is designed to enhance students' technical, communication, teamwork, and leadership skills while fostering an appreciation for diverse cultures. We do this through a mentor-led program that inspires and ignites student, school, and community pride.

We started to building Falcon 1 in

October 2014 and finished exactly 1 year, 1 month and 1 day from the time we set the first rivet. Falcon 1 originally stayed local and students got to use it for flight instruction.

Falcon 1 has recently been sold and that money will go back into the foundation to support the purchase of our third aircraft. The students' second plane, the F2 Talon, was completed in October and on November 21st it passed FAA inspection. Congratulations to all involved!

Six students have become pilots in four years. Three of them have been girls. The students put over 800 hours on Falcon 1 in just 2½ flying seasons in Wisconsin weather. This is amazing. We have burned over 5,000 gallons of fuel and have gone through six sets of brakes, four sets of tires, 60 quarts of oil and 120 spark plugs.

This program is the only of its kind in the region. There are three other programs in Texas and a program that is supported by Vans aircraft in Oregon.

See more about this exciting program at <https://falconaviation.org>

www.westosha.k12.wi.us



Read more about Westosha's Aviation Program in previous issues of *Transportation Today WI* — www.transportationtodaywi.com

The Aviation Club at Westosha Central High School

What makes for an exciting week in the life of two teenage girls? How about graduating high school with honors and distinctions and completing your First Solo flight in an airplane you helped build. That's exactly what Olivia Rasmussen and Nicole Jackson did early last summer at Central High School-District of Westosha. "Throughout the build of "Falcon One", I was exposed to real life engineering applications that further inspired me to pursue a degree in engineering. I was also introduced, quite unforgettably, to the world of aviation as I never would have imagined before, both through the build and in training for my license," said Olivia.



Fall/Winter 2016

What Did You Do Your Summer Before Your Senior Year in High School?

Shortly before ending his junior year at Westosha Central High School in Salem Wisconsin, Josh Engberg soloed Falcon One for the first time. Josh capped off his summer by earning his FAA Private Pilot license. On Aug 16th, after an hour long intense oral examination, Josh took off from Burlington Airport via runway 11 to show off his piloting skills. Josh flew a perfect flight exam (which was no big surprise to his flight instructor John Putra). This flight earned Josh his wings. This is super rare



to earn your wings at such a young age. Josh is the fourth student from the CHS Aviation Club that has completed their First Solo Flight in the RV-12 they helped build. He is also the fourth student from the program to complete his First Solo Flight in the last year.

Fall/Winter 2017

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The Wisconsin Asphalt Pavement Association is a statewide, non-profit organization representing the interests of the asphalt industry.

High School Seniors Graduate from WITC



By Maria Lockwood

Editor's note – this article appeared in the May 18th issue of the Superior Telegram

Eight high school seniors snagged their first diploma Wednesday. Each received a technical diploma for completing the automotive academy at Wisconsin Indianhead Technical College-Superior.

“They’re graduating from college before they’re graduating from high school,” said automotive instructor Terry Glanville.

Austin Zoltak will cross the Northwestern High School stage to graduate May 25.

“It’s different, but it’s exciting,” he said of finishing college before high school.

“I think it’s kind of cool,” said Ethan Paske, who will graduate June 2 from Superior High School.

This was the inaugural run for the academy, a year-long program created for high school seniors.

“We wanted to spark more interest in the automotive industry, because there isn’t a lot of interest and there’s a lot of employers looking for qualified individuals to work for them and they’re just not finding

any,” said Todd Asanovich, automotive program director and instructor.

The students spent 2½ hours a day, four days a week at WITC for the entire school year. There was no cost to students, and they walked away with high-demand skills.

“People are always going to need their cars worked on,” Zoltak said. “It’s a good career to get into and even if you don’t make a career out of it, just take the class, you know how to work on your own stuff. It will definitely help you in the future and could save you some money.”

Paske said he appreciated the small numbers, the one-on-one help from instructors and the fact that his classmates were serious about learning.

“The people who are here, planning to be

here, they want to get experience,” Paske said.

Instructors were willing to answer questions and explain processes, said SHS senior Ryan Bartley.

“These guys, I know, have actually had shop time, worked at an actual shop,” he said. “They know what they’re talking about.”

The program is part of a career pathway that links different levels of coursework, allowing students to build on their education one diploma or certification at a time. The new graduates can put their automotive maintenance and light repair technician diploma to use in the job market right away, or double down by furthering their studies in the automotive service technician program.

Asanovich said that seven of the eight have already signed up for the second semester; all received scholarships.

In another new step, WITC has partnered with Benna Ford and Northstar Ford to offer an “internship” option to second-semester students.

“They’ll be able to work part-time at local dealerships with technicians, not only earning money but also have a potential career at that dealership,” Asanovich said. “They’re not getting graded from us for an internship, but they’re actually getting work experience.”

Guido Velin prompted his son, Morgan, to take part in the automotive academy.

“It’s a great program,” Velin said. “The trades are going to need a lot of people in the

near future. Parents should encourage kids to take advantage of it.”

WITC has a lot of programs kids can benefit from, he said, from welding to business management. They can offer a stepping stone to a career in the trades, or just good, practical knowledge.

“They can all play X-Box, they can all text on a phone,” Velin said. “Can they pick up a welder and weld a bead, you know, can they grab a diagnostic tool and plug it into a car and tell what’s wrong with it?”

“Now I can,” said Morgan Velin, an SHS senior.

Zoltak has already encouraged next year’s seniors to join the academy.

“It was a really good hands-on learning experience,” he said. “I took a lot from it. It was good with the smaller numbers. It was a good experience, especially being free.”

The automotive academy is offered to all high schools within the WITC-Superior campus area, including Superior, Northwestern, Solon Springs and South Shore.

High schools interested in the academy can contact Jeanne Germaine at (800) 243-9484, ext. 4224 or jeanne.germaine@witic.edu. Students interested in the program can contact Asanovich at (715) 394-6328, Todd.Asanovich@witic.edu or their high school counselor.

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City Stadium Automotive



Green Bay Area Public School District

The automotive industry in the United States and Wisconsin is forecasted to remain a growing industry. Recognizing the need for a skilled automotive workforce, the Green Bay Area Public School District (GBAPS) expanded the automotive technician lab at Green Bay East High School in 2015 to form City Stadium Automotive.

Students enrolled in City Stadium Automotive® focus on the diagnosis and troubleshooting of faults in automotive systems while receiving high school and college credit through Northeast Wisconsin Technical College (NWTC).

Students now have the opportunity to earn up to 27 college credits and a one-year technical diploma over the course of their junior and senior year as part of the Automotive Maintenance Technician (AMT) program in collaboration with NWTC. Upon graduating from high school, students will be prepared to either enter the workforce directly or continue their education for one more year at NWTC to complete either a two-year Automotive Technician technical diploma or an Automotive Technology associate degree.

City Stadium Automotive® at East High is one of only 14 high schools in Wisconsin



to be certified by the National Automotive Technician Education Foundation (NATEF) for Maintenance and Light Repair Program Standards. NATEF is an organization that examines the structure, resources, and quality of training programs and evaluates them against standards established by the industry. Students who receive NATEF certification are prepared to work in the automotive field, enroll in technical school, or both.

Ford Ace Program

The Green Bay Area Public School District in partnership with the Ford Motor Company are proud to announce that the Ford Automotive Career Exploration (ACE) program was launched for the first time in Wisconsin to benefit the students of City Stadium Automotive® (CSA) at East High School in the 2018-19 school year.

This partnership will help to encourage youth interest in automotive fields, and raise the bar for student engagement in technologically advanced automotive career paths.

The ACE program will allow students at City Stadium Automotive® to have access to Ford's service literature, web curriculum, and training materials to advance student learning, and to earn Ford training credentials required for Ford dealer technician certifications.

"Ford Motor Company greatly values local engagement of our franchised dealerships within their local communities and the support that the administration in the District has provided for the CSA program," said Brandon Dixon, Field Service Engineer for Ford Motor Company. "We hope that the CSA program and relationships built here with local industry will be a model for other communities around the state to foster careers around the future of mobility and the automobile."

Meet The Instructors

Brian Loll is a graduate of Northeast Wisconsin Technical College (NWTC). He has been an Automotive Service Excellence (ASE) certified technician for over 30 years.

Prior to coming to East High School, he taught part-time at NWTC and taught two years in Menominee, Michigan. He has worked at Chevrolet and Pontiac dealerships, and owned his own shop for six years.

His favorite aspect of working at City Stadium Automotive is teaching the students, watching them progress, and using hands-on instruction.

Brian has a large family, and enjoys spending time with his children and grandchildren. In his free time he enjoys hunting and fishing.

Clint Braun's passion for the auto industry and drive for excellence made him the perfect addition to NWTC. A decision driven by his desire to educate, Clint fused together with the automotive program in August 2016. With his admirable approach to education and over a

decade of experience in the field, he is able to offer students an unparalleled classroom experience. Clint enjoys working for NWTC, and is thrilled to be able to incorporate his skill set as an automotive educator. Selected to initiate the partnership program between NWTC and East High School, he's excited about the new challenge.

Sparked at a very young age, his love for mechanics ignited. He's had a moped, go-karts, four-wheelers, tractors, dirt bikes, snowmobiles, motorcycles, trucks, and various sports cars. After graduation, Clint tackled an Auto, Diesel, & Industrial program. Since then, Clint has accelerated from being an entry level technician, to earning Ford Master Certification, all the way to managing a service department in a dealership. Additionally, he has auto sales and finance experience. In his leisure time, Clint's an outdoors man who enjoys fishing, hunting, and traveling.



Clint Braun



Brian Loll

www.gbaps.org



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See Inside the **NWTC** **TRANSPORTATION** **CENTER**

The NWTC Transportation Center is a 63,000-square foot facility located adjacent to the Green Bay campus on Packerland Drive.

The Transportation Center is home to the College's Automotive, Auto Collision and Diesel Medium and Heavy Truck programs.

The building includes:

- ★ a diesel truck repair lab
- ★ an auto collision refinishing lab
- ★ two auto repair labs complete with a shared parts department
- ★ a transportation welding shop
- ★ a modern high bay demonstration lab for instructional and corporate partner use

The facility serves up to 96 auto tech students, 96 diesel truck repair students, and 32 collision and refinishing students annually.

DID YOU KNOW?

The Transportation Center is designed to give students the familiarity of working in a dealership.



 **Northwest**
Wisconsin Technical College

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Plymouth Students Conduct Vehicle Inspections

Plymouth School District

Jamie Piontkowski

Coordinator of Community Communications

As winter approaches each year, Plymouth High School automotive students provide senior citizens and disabled people with some peace of mind.

Through an initiative sponsored by the Plymouth Police Department for the past 22 years, the PHS Automotive Technology class conducts free vehicle inspections for disabled drivers and those ages 60 and older. This year, students inspected 29 vehicles Oct. 24 at the school.

“Students use skills from the first quarter of work in the classroom and in the auto shop,” said PHS technology education teacher Beau Biller.

Before this year’s inspections, students practiced customer service and communication skills so that they could discuss procedures and issues with vehicle owners.

Students also practiced Multi-Point Vehicle inspections on their own vehicles, as well as on “customer” vehicles. These inspections encompass all fluids, steering and suspension components, tires, brakes, lights, and common wear items.

The practice allows students to feel comfortable when it comes time to check the senior citizens’ vehicles, Mr. Biller said. “Students get to use what they have learned in class and apply their knowledge in a real-world setting,” he said.

Mr. Biller said he most enjoys watching the students develop their communication skills as they deal with customers they don’t know. “Students work in small groups to inspect vehicles, so it is also interesting to watch the groups evolve throughout the experience and see students take on different roles in their group,” he said. “It is sometimes surprising to watch the group and see who emerges as a leader.”

www.plymouth.k12.wi.us



PHS Formula Cars Take 1st, 2nd at Road America



Plymouth School District

Plymouth High School took first and second in the Modified Class of the Formula High School Challenge held May 14-15 at Road America.

First place in the Modified Class went to the new PHS car 77, which averaged 43.97 seconds, the second-fastest time in any class. The team driving car 66, built last year, averaged 45.41 seconds to finish second in Modified and third overall.

The cars were designed, built and raced by members of the PHS Tech Club, created a few years ago as an umbrella extracurricular for tech ed-related projects. Formula High School provides hands-on experience with real-world problems for those interested in engineering and motorsports, but also draws on math, welding, CNC, manufacturing, physics, language arts.

PHS first participated in Formula High School in 2016, when it took third in Stock Racing Class. In 2017, students designed and built car 66, which took first in the Modified

Class and second overall that year.

Students created car 77 for this year’s competition, which proved to be a true hands-on learning experience. “We did have to make some modifications to the engine,” said PHS tech ed teacher Greg Gritt. “We had a CVT clutching system, and we were burning up belts. We converted back to the older clutch and ran clean all day on Tuesday.”

Students began work on the new car in November, with guidance from Mr. Gritt and the other PHS tech ed teachers, Jake Sherman, Beau Biller and Ken Odekirk.

In addition to Formula High School, the PHS Tech Club also has participated in Project GRILL, High Mileage and Beat the Heat, plus numerous of community volunteer projects. Club members also lead tours for eighth-graders and second-graders in the LTC-Plymouth Science & Technology Center at PHS.

www.plymouth.k12.wi.us

Read more about Plymouth’s Auto Tech programs in previous issues of *Transportation Today WI*

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Students Restore a 1967 Camaro

Thanks to a paint job that mushroomed, Plymouth High School now owns a 1967 Chevy Camaro restored by both technical college and PHS students. PHS junior Nadine Dragan worked on the project with her father, Bob Dragan, machine tool operations specialist at the college. “I learned problem-solving skills from this experience and a lot of new things about repair, because I didn’t know much about body work and mechanics beforehand.” “This also taught me about the rich backstories that older cars tend to have, as well as how to maintain them and make them look pretty on the outside.”



Fall/Winter 2016

Plymouth High School Formula Car Takes 1st Place!

Plymouth High School took first in the Modified Class of the Formula High School challenge May 15–16. Three different drivers behind the wheel of PHS car S-66 averaged 45.83, the second fastest time in any class. The car was designed, built and raced by members of the PHS Tech Club, created a few years ago as an umbrella extracurricular for various tech ed-related projects. The club provides hands-on experience with real-world problems for those interested in engineering and motorsports, but also draws on math, welding, CNC, manufacturing, physics, language arts.



Fall/Winter 2017



School District of Beloit & Beloit Memorial High School Automotive Program is Second to None!

*Brian Vissers
Public Information Officer
School District of Beloit*

Beloit Memorial High School's automotive program is a NATEF certified program focused on not only technical skills but also has a strong emphasis on the soft skills that young men and women need in order to be successful in the workforce, regardless of the career path that they choose. The Automotive Program also offers apprenticeships to those students who are interested in careers in automotive repair or the automotive industry. The facility is first-class and located in the Eclipse Center at a former Sears Automotive auto shop. It's impressive by any standards.

The students learn about all mechanical aspects of automotive repair as they progress through the courses, everything from basic vehicle maintenance to how an automatic transmission works. While we do cover all aspects, there is a significant emphasis placed on the skills that are need at the entry level. It's more practical to spend more time on something like brakes, and have them at a higher level of proficiency in that instead of spending more time on something like engine rebuilding, which as a professional technician these

students may never perform.

This isn't the "shop class" from twenty years ago that many of us envision, all of our CTE (Career and Technical Education) courses here at BMHS have a career path linked to them. It is critical to have programs as we have at BMHS as there are many students who will not attend a traditional four-year college for any number of reasons. These reasons aren't always tied to academics, as many people believe. There are family, economic, and personal situation that the young men and women need to deal with while deciding which post-high school track they'll pursue. Instructors always stress to students that there IS success available without a four-year college degree.

We are proud to have an outstanding partnership with our local technical college. We currently offer transcribed credit in all of our automotive courses. What does this mean? It means that by successfully completing all of the classes and Shop Math, a student can earn enough credits for the entire first semester of the Automotive Technician program at the college at no cost to the student. In today's world of rising costs for higher education this is a significant opportunity for our students.

In accordance with NATEF (National Automotive Technicians Education Founda-



tion) requirements, we have an advisory board that meets twice a year to give input on what skills and processes need to be taught in our curriculum in order for graduating student to have the skills that they need so that they can hit the ground running upon graduation. We also work together to place students into apprenticeships so that they have an opportu-

nity to start their careers off early and on the right foot.

Students learn a broad spectrum of information from shop safety, what is a screwdriver used for, on up to how to perform actual vehicle maintenance and repair in a

Continued on Page 15

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“Lifelong Learners:” Grafton High School Prepares Students for Auto Tech Industry

Grafton School District

By Jacquelyn Abad

Two Grafton High School students placed fourth at the National Automotive Technology Competition in New York.

Sixty high school students representing each region of the county competed for the top prize. Teams of two put their automotive repair skills to the test. They had three hours to diagnose and repair a car.

“There were different computer modules in the car so when each system would malfunction we would have to diagnose,” said Nick Schmit, senior.

Grafton Seniors Nick Schmit and Trevor Guysky took home fourth place.

“If you get in the top five in the country, that’s amazing,” said Carl Hader, automotive instructor.

Hader’s been the automotive instructor for the last 39 years. During his career, he’s helped 17 teams get to the national competition.

“The person who is doing this for a living they have to be so computer and mechanical literate,” said Hader.

In the car industry, there’s a shortage of auto technicians. Experts estimate tens of thousands trained workers are needed to keep up with the demand.

“It’s the wave of the retirement that’s happening in the automotive industry. There is a gigantic number of workers needed,” said Hader.

For students like Trevor Guysky, this is a field he’s always been interested in.

“I’ve always enjoyed the way things move and cars. It started off with bicycles and moved up as I got older to motor vehicles,” said Guysky.

As the cars change and the students graduate, Hader’s lessons remain the same.

“If I can send them out with work ethic that’s the biggest thing and also to know that they are going to be lifelong learners,” said Hader.

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ghs.grafton.k12.wi.us



Read more about Grafton’s Auto Tech program in previous issues of *Transportation Today WI* — www.transportationtodaywi.com

Grafton High School Builds Auto Tech Leaders

With a population of around only 12,000 people, Grafton sits smack dab in the middle of Wisconsin’s 2nd smallest county. What takes place in the automotive program at the high school is nothing short of astonishing. Grafton High School has the record for the most top finishes in national automotive competitions. Carl Hader has been the Auto Shop Teacher there for 35 years and can say with certainty that it’s been no easy task to establish or to maintain national-caliber program integrity, but it has been great for our students, our graduates, our community and our school district. Through open enrollment, we attract students from all of the high schools in our county to Grafton. Career training is first and foremost in their minds when they enter here and they always get more than they expected.



Spring 2014

GraftonSchools
@GraftonSchools

GHS automotive students helped out community senior citizens by holding a "Gearing Up for Winter" free car service event. Their very first "customer," Janet Schmidt, was pleased with her experience!

Grafton High School Students Win Ford AAA Student Auto Skills National Championship

Students from across the country gathered in Dearborn, MI last June to match wits and workmanship in a race against the clock — and one another — for the right to claim a National Championship and be named the top young automotive minds in America at the 65th annual Ford/AAA Student Auto Skills National Finals at Ford World Headquarters. Justin Bublitz, 18, and Colt Morris, 17, representing Grafton High School, won the contest with a perfect score in the hands-on part of the competition. Bublitz and Morris were not the first to finish the hands-on event. They were, however, the first team to finish with a “perfect” car.

Fall 2014

Shawano Shows Off Their Cars



*Peyton Buerman, The Hawk's Post
Shawano High School*

SCHS hosted a car show at the high school to showcase cars that people own throughout the community on Friday, May 18.

Mr. Jeremy Hodkiewicz, a shop teacher at SCHS, has been involved in the show for 10 years now.

"It's been about 75 cars typically," Mr. Hodkiewicz said. "A lot of people come for lunch, or come across the street from daycare and check it all out."

The show brings in members from all over the community and grabs their attention with shiny cars. The event also raises funds for the school through different vendors and stands.

"It's a fundraising event for Skills USA," Mr. Hodkiewicz stated. "It's also trying to promote the automotive industry and old cars and stuff to our student body."

While seeing the cars is a fun experience for students, they also learn a few things from viewing the cars. The students are able to use their knowledge about cars to enjoy the wide variety that is spread out for the day.

"It's good for all students in the school to see our history," Mr. Hodkiewicz explained. "But, the students that are highly involved in automotive can understand the technology that used to exist."

The show is a great experience for people to look at cars old and new and see the transformations they have gone through. There are also food stands and other activities for people to enjoy while attending.

"Some of the proceeds from the car show are going to help Tyler Wagner, who is a state champ for collision repair," Mr. Hodkiewicz said. "[He] qualified to compete in collision repair in Louisville, Kentucky for the national contest."

There are a lot more great things to look forward to in the future from the automotive classes and students. Students can attend this event to determine where their interests will carry them in the future.

www.shawanoschools.com



Shawano Community High School Introduces New Sport



Shawano School District

Shawano High School is trying to start a new sport that will hopefully spread across Wisconsin. The new Legend race car series is bound to catch the eyes of many, not only students, but citizens in the community. The purpose of the new sport is to get a team of mechanics from the school, build a race car that will perform effectively and race it out on the track. It is not a head-to-head race. It is more of a race against the clock, trying to get the best time possible around the track. The car is a 5/8 scale model of the actual size Ford sedan with a steel racing frame. There will be a Yamaha 1250 cc motor out of a crotch rocket powering the beast.

Spring/Summer 2017

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Cudahy High School Proudly Offers a Brand New Facility for their Automotive Technology Program

Erin Shaughnessy
Library Media Specialist
School District of Cudahy

The automotive technology program at Cudahy High School has an updated home. Over the summer of 2017, with support from the Ladish Foundation, the entire auto shop was renovated, resulting in a state of the art facility that has led to additional course offerings and increased enrollment to meet students' interests and vocational needs.

ATI Ladish is a forging company in Cudahy. Its charitable foundation supports organizations involved with education, health care, and the arts. The entire technology education wing of Cudahy High School was renovated after receiving a grant from the company's foundation.

School district administration, led by Superintendent Dr. James Heiden, believes technology and vocational educational programs are valuable educational opportunities for CHS students. Prior to the renovation, the outdated equipment and inefficient use of space did not allow students to make a smooth transition from their school experience to the



workplace. Now, the new structure and components are the same as those found in local professional auto shops.

"We are grateful to the community and to the Ladish Foundation for their financial support. This support ensures that our students will receive a comprehensive high school education for the foreseeable future. We are truly blessed," Heiden said.

The updated facility has many new features that improve safety and efficiency. A non-slip floor provides for a safer environment. Enhanced lighting provides better visibility and energy efficiency unlike old fluorescent lighting. A well designed floor plan includes drop down features such as air hoses, LED lights, and outlets. The shop now boasts a new tire balancer and tire mounting machine,

two new twin post lifts and one portable lift, as well as a dedicated classroom space.

CHS auto teacher Luke Lechner notes that there are few high school automotive programs in the greater Milwaukee area. "It's refreshing to see that Cudahy values their automotive program. It's like a dream come true,"

Continued on Page 15

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Students Create, Film, Produce Distracted Driving PSA Through Wisconsin DOT

She needed a boost to see over the podium outside Wausau’s State Patrol post on Tuesday morning, but Arianna Fuller expected her message to come across loud and clear: put the phone down.

“I mean, it’s basic,” the 13-year-old said. The Department of Transportation’s

Inter-tribal Task Force chose Fuller’s Indian Community School from the Milwaukee area to put together a public service announcement on a roadway safety issue. The students agreed on covering distracted driving, then brainstormed, wrote, and filmed the ad all in one busy school day.

“Well . . . It’s a small sacrifice,” Fuller said of missing recess the day of filming.

The DOT hired a small production company to offer guidance, but the students did everything except the final edits themselves. Tuesday, they shared their message in Wausau as part of a tour around the state.



“I said, ‘That’s ad’s gotta go statewide.’ This is an incredible message, incredibly well done,” DOT Secretary Dave Ross said.

The DOT recruits students to make the PSA videos twice a year. DOT Tribal Liaison Ryan Greendeer calls this video one of the best yet.

“We really aspire to create some type of change in our community, in our own families,” Greendeer said.

That’s a change people in the area need to make. State figures over the last five years show more than 11,600

distracted driving crashes in the north-central region. Those crashes resulted in about 4,600 injuries and 62 deaths.

“It’s constant,” State Patrol Captain Adrian Logan said. “We not only see it while we’re on duty, we see it while we’re off duty.”

Logan says distracted driving isn’t quite to drunk driving’s level for crashes, but it’s



getting close. He thinks a message made by students mainly for students will be effective.

“This gets a message out that we can’t necessarily get out, because they’ll have access to their friends,” Logan said. “Their friends have access to their parents and their family members.”

It’s a message that can -- and should -- hit home for all generations, making sure everyone gets there safely.

“These guys really hit the jackpot with this,” Greendeer said.

You can find a link to the full video here.

www.youtube.com/watch?v=0Uq6hLTB1KY

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www.ics-edu.org

Beloit Automotive Program

Continued from Page 11

professional workplace setting. Students learn on the same types of equipment that they will see when working in their post-BMHS careers. Our advisory board members are outstanding in that they are always willing to lend a helping hand when it comes to maintaining the latest tools so that students will have relevant skills upon entering the professional workforce.



We utilize 21st-century skills of communication, collaboration, critical thinking, and creativity which are essential to being successful anywhere, but especially so for an automotive technician. In real life situations our students will need to be able to communicate with customers and coworkers, work as a team. While no diagnostic scenario is the same we teach our students that creativity and critical thinking are a must. Here at BMHS professionalism is also part of our grading in all of our CTE courses.

Plans are in the works to bring in live work on staff members vehicles as a way of gaining some workplace experience in the classroom. We currently have a unit on Shop Simulation, where the students are simply given a car and a concern, then they need to write the work order, diagnose and estimate the problem, sell the job and complete the task. All within industry flat-rate time.

www.sdb.k12.wi.us

Cudahy Automotive Technology Program

Continued from Page 14

Lechner said. He recalled his experience in a different school district when he would have to stop to fix a neglected machine in order to be able to finish a class demonstration.

“I find autos to be a practical course for my own knowledge. I realized I needed to know about my own car. The shop is amazing. It’s huge and has so many tools that I’ve learned how to use. The bigger space makes it easier for people to work safely. It’s one of my favorite classes,” senior Carley Molloy said.

During the 2018–19 fall semester, there were 82 students enrolled in an automotive tech course, including 10 female students. This accounts for just over 10% of the student population.

Career Pathways

The automotive career pathway includes courses in Small Engines, Autos I, and Autos II. After successful completion of Autos II, students are eligible for placement in an apprenticeship program. The growth of the automotive program should create additional choices for advanced students.

“We are looking to add Autos III which might lead into the programs at the technical college, further youth apprenticeship options, ADAMM programs, and directly to a career in



the automotive industry,” said technology education teacher Tom Backes.

While other school districts may choose to eliminate automotive tech programs, Cudahy High School proudly offers a brand new facility with modern equipment intended to prepare students for the workforce.

www.cudahy.k12.wi.us

CONCRETE — It is What America is Made of and We Need the Next Generation's Help!

Kevin W. McMullen, P.E., President
Wisconsin Concrete Pavement Association

Concrete is the most widely used construction material across the globe. Our highways, bridges, airport runways, sidewalks, homes, schools, etc. all utilize this versatile construction material. Yet, most people do not even know what it is made of. In fact, I commonly hear people incorrectly say that something has been built out of cement, calling concrete by the wrong name. Cement is an ingredient of concrete. The parallel example that I like to use is that you do not go to the grocery store and buy a loaf of flour. You buy bread and flour is an ingredient.

Concrete can be called man made stone. And, the reason it came into existence centuries ago with the ancient Romans was that there was the desire to form stone like material into the shapes and sizes of things too difficult to carve from stone. So, what is concrete made of? Stone or gravel, sand, Portland cement, fly ash, slag, water and air are the basic ingredients of concrete.

The stone or gravel is naturally occurring rock that is crushed down to sizes ranging from $\frac{3}{8}$ ths of an inch up to $1\frac{1}{2}$ inches or more. The rock is crushed to have a range of sizes so that we pack them together to form as dense of a matrix of stone as possible. This is what gives concrete strength to do all the things we require of it. Sand is the small stone that fills the voids left between the big stones, further strengthening the concrete.

Cement is a manufactured product. It is a blend of limestone, clay and shale that is put through a rotary kiln to produce an end product high in calcium oxide, silica, alumina and iron. The end product is then ground up into a fine gray powder. I commonly hear people say the concrete dries. It actually hardens through the chemical reaction between the cement and water binding the stone and sand together into a solid mass.

Fly ash and slag are relatively new to concrete. Fly ash is the ash from the coal burning power plants and slag is the sludge that floats to the top during the

steel production process. Historically, these materials were industrial wastes that went to landfills. Fly ash and slag have the same basic chemical make-up as cement. What is really interesting is that when we use these byproducts in concrete we can produce stronger, less permeable to water and longer lasting concrete. So, this is a great environmental success story of utilizing an industrial waste in a beneficial way.

Air is a very necessary ingredient of concrete because of our freezing temperatures each winter in Wisconsin. Water has the ability to soak into concrete. When water freezes it naturally expands in volume. Air in the concrete is required for that ice to expand into. If we don't provide a volume of 4-8 percent air, the concrete would be slowly broken apart at a microscopic level first and then would eventually crumble. Without air we significantly reduce the life of our highways, bridges, sidewalks, etc. So, we add chemical air entraining admixtures for the purpose of producing small micro bubbles

of air throughout the concrete.

The challenge we have in the concrete industry is to bring the next generation of concrete professionals and builders into our industry. All of the points made in this article need to be quantified and measured as we design and construct our infrastructure. We are currently experiencing a shortage of technical staff to test materials and build/manage construction projects. We are urging you to look at the construction industry as a career. Take a look at our engineering schools in Wisconsin, the tech schools and the skilled trades there is a role and job out there for everybody.

Whether you become a concrete artisan, a truck driver, home builder or a civil engineer the challenge is to make our world better, make our infrastructure last longer and build the most environmentally sustainable roads, streets, buildings and products as possible.



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Analyze product delivery or supply chain processes to identify or recommend changes. May manage route activity including invoicing, electronic bills, and shipment tracing.

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Design or analyze operational solutions for projects such as transportation optimization, network modeling, process and methods analysis, cost containment, capacity enhancement, routing and shipment optimization, or information management.

Electrical Engineers

Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.

Bus and Truck Mechanics and Diesel Engine Specialists

Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.

Mobile Heavy Equipment Mechanics

Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining.

Automotive Master Mechanics

Repair automobiles, trucks, buses, and other vehicles. Master mechanics repair virtually any part on the vehicle or specialize in the transmission system.

Cargo and Freight Agents

Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs.

Driver/Sales Workers

Drive truck or other vehicle over established routes or within an established territory and sell or deliver goods, such as food products, including restaurant take-out items, or pick up or deliver items such as commercial laundry. May also take orders, collect payment, or stock merchandise at point of delivery. Includes newspaper delivery drivers.

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Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business. Duties may include using radio, telephone, or computer to transmit assignments and compiling statistics and reports on work progress.

Shipping, Receiving, and Traffic Clerks

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Paving, Surfacing, and Tamping Equipment Operators

Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways, or equipment used for tamping gravel, dirt, or other materials. Includes concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.

Source: O*NET OnLine
www.onetonline.org



Logistics and Transportation Spotlight

The Logistics and Transportation Industry in the United States



The logistics and transportation industry in the United States is highly competitive. By investing in this sector, multinational firms position themselves to better facilitate the flow of goods throughout the world's largest consumer market. International and domestic companies in this industry benefit from a highly skilled workforce and relatively low costs. Spending in the U.S. logistics and transportation industry totaled \$1.4 trillion in 2016 (7.5 percent of U.S. GDP that year). Analysts expect industry investment to correlate with sector-specific growth in the U.S. economy. America's highly integrated supply chain network links producers and consumers through multiple transportation modes, including air and express delivery services, freight rail,

maritime transport, and truck transport. To serve customers efficiently, multinational and domestic firms provide tailored logistics and transportation solutions to ensure coordinated goods movement from origin to end user through each supply chain network segment.

Logistics services: This subsector includes inbound and outbound transportation management, fleet management, warehousing, materials handling, order fulfillment, logistics network design, inventory management, supply and demand planning, third-party logistics management, and other support services. Logistics services are involved at all levels in the planning and execution of the movement of goods.

Air and express delivery services (EDS): Firms offer expedited, time-sensitive, and end-to-end services for documents, small parcels, and high-value items. An \$87 billion industry in the United States, EDS firms also provide the export infrastructure for many exporters, particularly small and medium-sized businesses that cannot afford to operate their own supply chain. Recent

EDS industry growth has been generated by the expansion of electronic commerce use by businesses and consumers.

Freight rail: High volumes of heavy cargo and products are transported long distances throughout the United States via rail network. Each day, this 140,000-mile system delivers an average of 5 million tons of goods and serves nearly every industrial, wholesale, retail, and resource-based sector of the economy. Freight rail moves more than 70 percent of the nation's coal, about 58 percent of its raw metal ores, 1.6 million carloads of wheat, corn, and other agricultural products, and 13.7 million intermodal containers and trailers that transport consumer goods.

Maritime: This subsector includes carriers, seaports, terminals, and labor involved in the movement of cargo and passengers by water. Water transportation moves nearly 70 percent of all U.S. international merchandise trade, including 72 percent of U.S. exports by tonnage.

Trucking: Over-the-road transportation of cargo is provided by motor vehicles over short and medium distances. According to the American Trucking Associations, trucking revenues were \$676.2 billion in 2016. That year, trucks moved more than 10 billion tons of freight.

Employment of heavy and tractor-trailer truck drivers is projected to grow 6 percent from 2016 to 2026, about as fast as the average for all occupations. The economy depends on truck drivers to transport freight and keep supply chains moving. As the demand for goods increases, more truck drivers will be needed.

Source — SelectUSA is a U.S. government-wide program led by the U.S. Department of Commerce.

America needs more truck drivers.

The trucking industry is facing a growing shortage of drivers that is pushing some retailers to delay nonessential shipments or pay high prices to get their goods delivered on time.

A report from the American Trucking Associations says more than 70 percent of goods consumed in the U.S. are moved by truck, but the industry needs to hire almost 900,000 more drivers to meet rising demand.

— NPR



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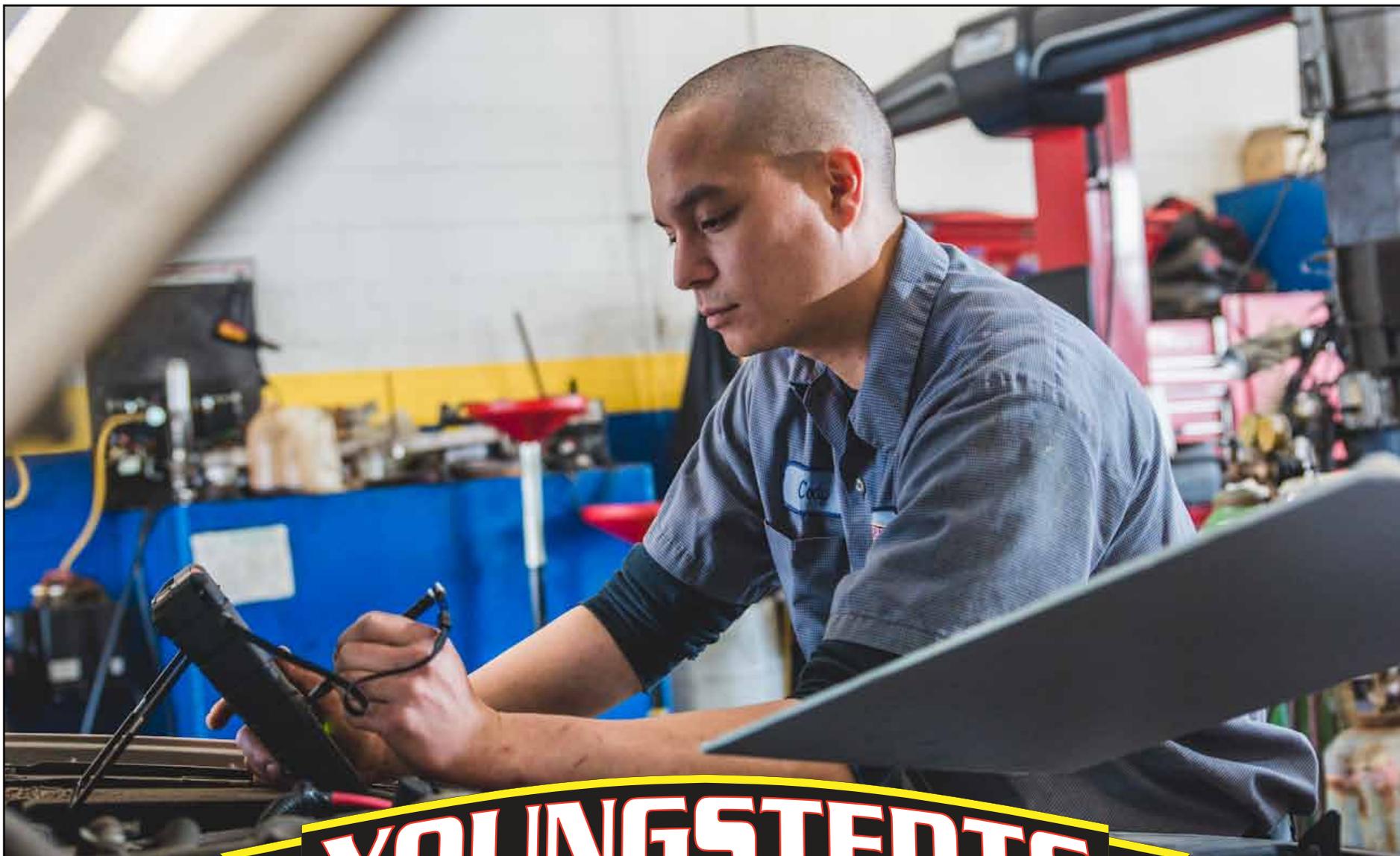
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- Competitive Wages, Fast-Paced, High-Demand Career



Qualifications

- Must have High School Diploma or GED equivalent
- Must have safe driving record
- Must have Wisconsin Class B Commercial Driving License
- Must be able to pass a pre-employment drug/alcohol screening to be considered. Random testing does occur annually
- Must have a positive attitude, strong work ethic and strong customer service

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