SCHOOL SPOTLIGHT

MUSTANG DYNAMOMETER

Eastern Maine Community College

Preparing the Next Generation of Technicians with Real-World Testing

A Dodge Demon on Mustang's MD-AWD-150-SE-EV e-Mobility rolling road at EMCC, which won the MCAP bracket challenge. EMCC took second place in the nation in this competition.

Preparing Future Auto Technicians
With Mustang's EV-Capable Rolling Road

For nearly 60 years, the Automotive Technology program at Eastern Maine Community College (EMCC) has been preparing students for successful careers in the automotive industry. As vehicle technology continues to evolve, especially with the growth of electric vehicles (EVs), the college sought a way to provide students with more real-world diagnostic and testing experience without leaving the classroom.

To meet that need, EMCC installed the Mustang MD-AWD-150-SE-EV e-Mobility rolling road (chassis dynamometer).

A Tool Built for Modern Vehicle Training

Today's vehicles rely heavily on advanced electronics and computer-controlled systems. Many drivability concerns only appear under specific driving conditions, making diagnostics challenging.

Because the college cannot road test customer vehicles, the Mustang rolling road allows instructors and students to safely recreate real-world driving conditions inside the shop. The system can simulate vehicle load, road grades, acceleration, and deceleration while providing valuable diagnostic data.

Eastern Maine Community College

EV capability was a major factor in the purchasing decision. "We could see where the industry

Testing an all-Electric vehicle

was heading and needed a rolling road that wouldn't become obsolete in a few years," explained Christopher Glenn Davis, the ASE Master Technician and Automotive Department Chair. Competitive pricing, EV functionality, and strong customer support made Mustang the clear choice.

Enhancing Learning Across Several Classes

The rolling road has become one of the most versatile teaching tools in the program.

Students use the system in engine performance classes to diagnose ignition and fuel-related misfires, monitor emissions data, and analyze vehicle performance under load. In transmission courses, instructors demonstrate line pressure changes and simulate towing and grade conditions. The dyno is even used to show how basic maintenance items, such as dirty air filters, can affect vehicle performance.

For manual transmission training, the system's counterweight flywheels help simulate challenging driving conditions, allowing students to practice skills they may not otherwise experience.

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- Christopher Glenn Davis
ASE Master Technician
Automotive Department Chair

Better Diagnostics, Better Technicians

One of the greatest benefits of the Mustang dyno is giving students the opportunity to observe and diagnose vehicles under load as an entire class.

Students gain a deeper understanding of fuel trims, scan tool data, drivability concerns, and vehicle system operation in real-world conditions. This hands-on experience helps develop the diagnostic skills and confidence they will use throughout their careers.

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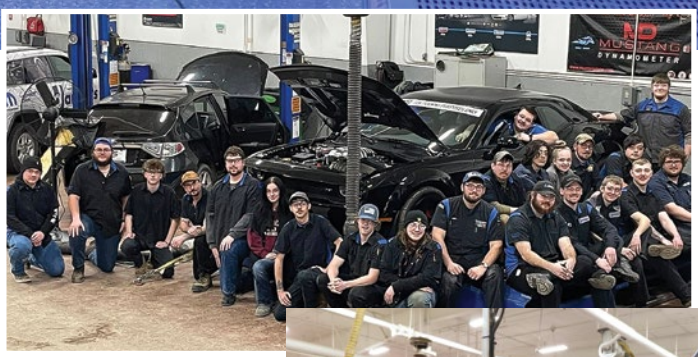

More Than a Teaching Tool

Despite requiring some facility modifications to fit within the school's shop, the rolling road has become an asset beyond daily instruction.

The dyno is now a highlight during recruiting events and open houses, where prospective students can watch live vehicle testing demonstrations and experience the excitement of automotive technology firsthand.

Preparing Students for Tomorrow

By investing in the Mustang MD-AWD-150-SE-EV e-Mobility rolling road, Eastern Maine Community College has expanded its ability to train students on both traditional and electric vehicles while providing real-world diagnostic experience in a controlled classroom environment.

The result is a stronger educational experience, enhanced student engagement, and graduates who are better prepared to succeed in today's automotive industry.

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