



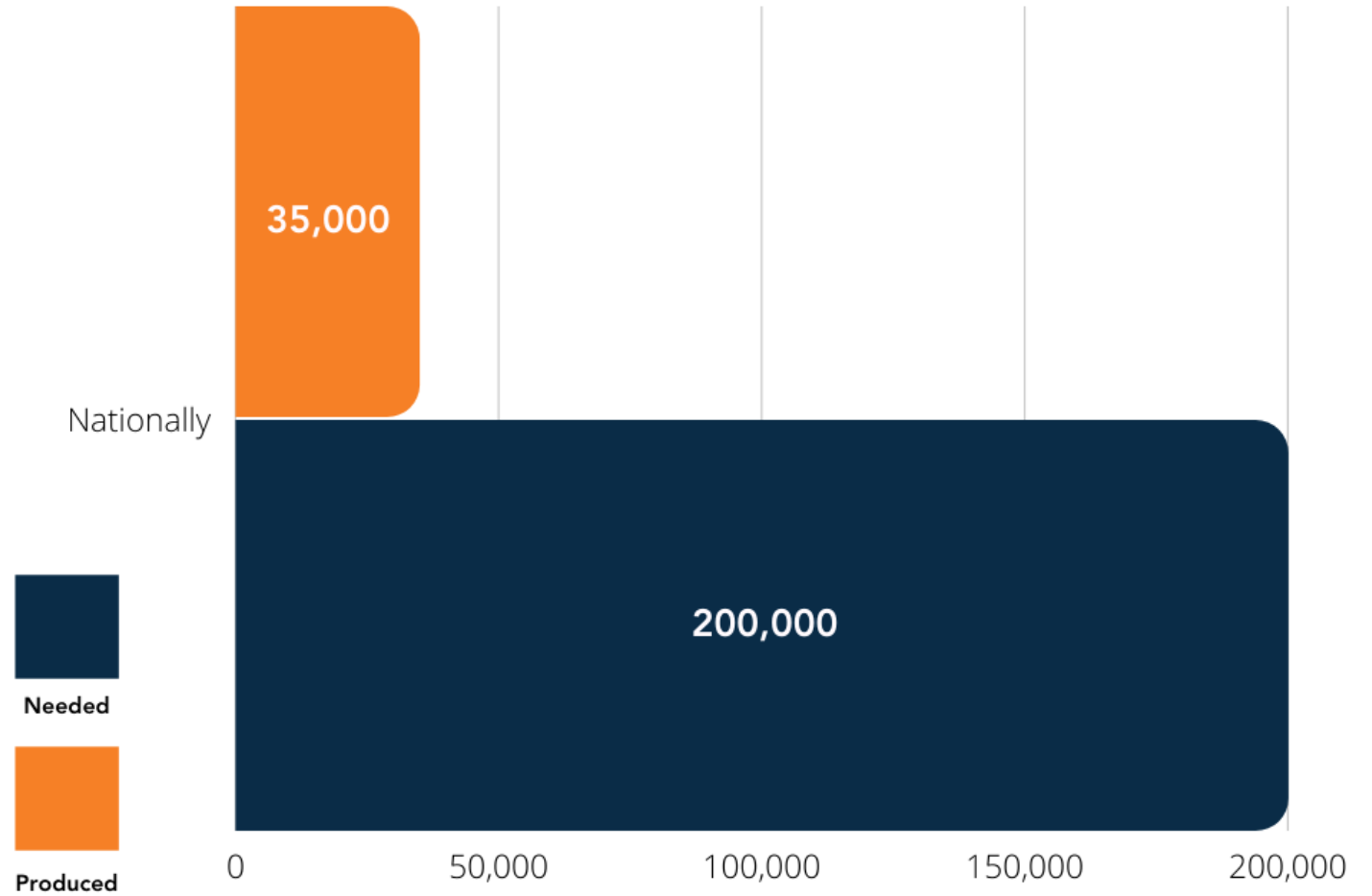
Using Hybrid Instruction to Increase the Participation of Women and Adult Learners in Diesel Technology

This work was supported by The National Science Foundation under ATE Grant DUE #2100297 in the amount of \$279,336 awarded to Wallace State Community College-Hanceville. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Identifying Needs of the Workforce

Projected Industry Needs 2021 - 2027

#'s below are based on annual



<https://www.tirebusiness.com/column/tackling-truck-technician-shortage>

Diesel by
Distance



Key Program Components

Hybrid Program for Diesel Technology

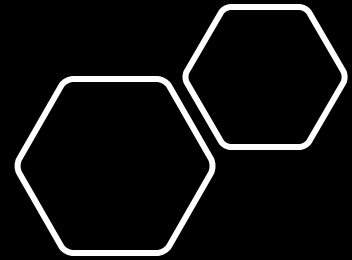
Online Theory

Online Curriculum - CDX

Virtual Reality Simulation Training - TRANSFR

Flexible Labs

In-House Assessments



National Science Foundation (NSF)

The National Science Foundation (NSF) is an independent agency of the United States government that supports fundamental research and education in all the non-medical fields of science and engineering. With an annual budget of about \$8.3 billion (fiscal year 2020), the NSF funds approximately 25% of all federally supported basic research conducted by the United States' colleges and universities. In some fields, such as mathematics, computer science, economics, and the social sciences, the NSF is the major source of federal backing.

https://en.wikipedia.org/wiki/National_Science_Foundation





Developing and Implementing Hybrid Instruction to Increase the Access of Women and Adult Learners to Diesel Technology Training



Recruiting & Retaining Women in Diesel

Partnered with and underwent training conducted by Donna Milgram, the Executive Director of the National Institute for Women in Trades, Technology and Science (IWITTS).

Targeted Recruitment



- Online & In-Person Women in Diesel Meet & Greets
 - Technical Schools
 - Dual Enrollment
 - Active Social Media Advertising
 - Women Recovery Programs
 - Updated Marketing Materials
 - B&I Support
-

Tailored Retainment

- Female Resource Guide
- Encourage Questions
- Mid-Semester Check-ins
- Constant Communication
- Female Role Models
- Introductory Guidebook (Fall 2023)
- Entrance Survey Identifying Areas of Concern (Fall 2023)



DIESEL
Parts & Pieces



Additional Program Services



Career Assistance

- Resume/Cover Letter Writing Assistance/Editing
- Mock Interviews/Interview Skills
- Handshake Connection
- Job Placement



Work-Based Learning

Most students opt to enter the workforce while enrolled into diesel technology, those students typically transition from the traditional course to the distance option to work more while in school therefore assisting with the diesel technician shortage.

There are several opportunities for Work-Based Learning.

- Internships
- Registered Apprenticeships
- & More!



A black graduation cap with a gold tassel is positioned on top of a large pile of US dollar bills. The bills are of various denominations, including a prominent \$100 bill in the center. The entire scene is dimly lit, with the text overlaid in a bright white outline font.

Financial Aid & Scholarships



Diesel Bootcamps

These 8-week training bootcamps are geared toward those who want to enter the workforce more quickly. Once the bootcamp is complete we can assist you with finding an entry-level tech position or you can choose to enroll into the credited program.

Notable Methods

- Flexible hybrid instruction - online theory, virtual reality simulations for skills practice, & flexible scheduled on-campus practice & assessments - Each student receives a customized lab-schedule to fit their needs.
- Financial Aid & Scholarships available.
- WBL opportunities to earn & learn.
- Targeted Marketing & Recruiting



Notable Outcomes

Prior to the launch of Diesel by Distance in Fall 2020 there were 31 students. All were white males, two were adult learners.

Since that semester, 14 females have been served who received at least a short-term certificate, 12 being DxD.

Since Fall 2020 we have served an additional 32 adult learners (25+ years old). Of the 32, six were females and three were African-American.

We are currently (summer 23) serving 39 students

- 36% Adult Learners
- 18% Female
- 8% Other Ethnic Background



Contacts



Daniel Swindall,
Diesel Technology & Diesel by Distance Instructor
256.352.8063
daniel.swindall@wallacestate.edu



Anna Beard,
Diesel by Distance Project Coordinator
256.352.8356
anna.parrish@wallacestate.edu



Questions?
