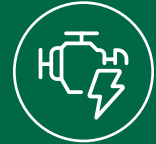
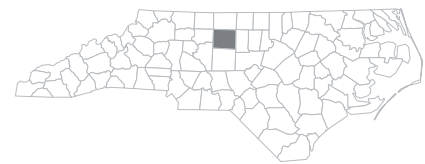


THE ECONOMIC VALUE OF GUILFORD TECHNICAL COMMUNITY COLLEGE'S Diesel and Heavy Equipment Technology Program



The Diesel and Heavy Equipment Technology program¹ was only recently established in 2014. In FY 2019-20, GTCC enrolled 44 students in the program. Of these students, 10 graduated with a certificate in FY 2019-20.



GUILFORD COUNTY, NC

CAREER OUTLOOK

The Diesel and Heavy Equipment Technology program can lead students into a number of occupations, which may include: automotive service technicians & mechanics and bus & truck mechanics & diesel engine specialists. Many of the Diesel and Heavy Equipment Technology program students will enter the Guilford County workforce.

Using the county number of annual job openings for these occupations (69) and subtracting the FY 2019-20 GTCC completers that may fill these openings (10), we arrive at a gap of 59 job openings.² There are 201 unique job postings at the associate degree or below for these occupations in Guilford County. The top three posting companies are: Guilford County Schools; Carmax, Inc.; and Cummins Inc.

PROGRAM TO OCCUPATION MAPPING METRICS IN GUILFORD COUNTY

Number of occupations	2
Jobs (2020)	2,030
Projected avg. job growth (2020-2029)	+0.4%
Annual openings (2020)	69
Median annual wage (2020)*	\$46,015

* The median annual wage reflects all award levels.

ALUMNI IMPACT

Former students of GTCC's Diesel and Heavy Equipment Technology program added \$62.6 thousand in income to the Guilford County economy in FY 2019-20. This figure represents the increased wages collected by former students active today in the county workforce as a direct result of their education, the increased output of businesses that employ these students, and the multiplier effects that occur.

ALUMNI LIFETIME EARNINGS INCREASE AND IMPACT

Lifetime earnings
increase per completer

\$348.4 thousand

Total alumni impact
in FY 2019-20

\$62.6 thousand



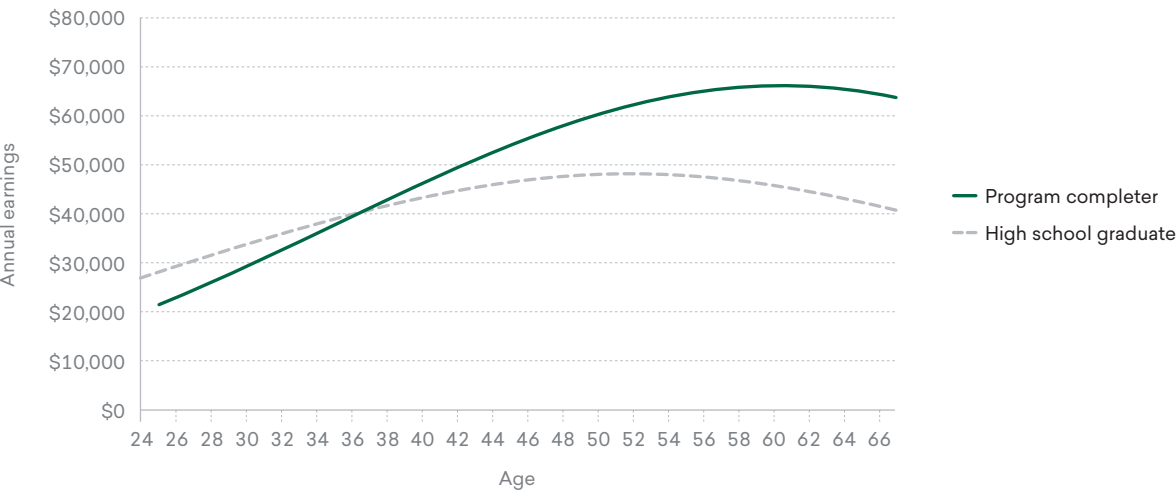
¹ The Diesel and Heavy Equipment Technology program is defined by the following Classification of Instructional Program (CIP) code: Medium/Heavy Vehicle & Truck Technology/Technician (47.0613).

² For the purposes of this analysis, only GTCC completers were considered when comparing to annual openings.

STUDENT RETURN ON INVESTMENT

To earn a certificate in the program, students experience costs in the form of tuition and fees, books and supplies, and the opportunity cost of attending school instead of working. In return for this investment, students can earn higher wages. For every dollar students invest in their education in the program, they will receive \$4.10 back over the course of their working lives. This investment can also be seen in terms of a rate of return of 16.6%. This is an impressive return, especially when compared to the U.S. stock market 30-year average return of 10.6%.

LIFETIME EARNINGS OF A PROGRAM COMPLETER
COMPARED TO A HIGH SCHOOL GRADUATE



TAXPAYER BENEFITS

Taxpayers will receive an estimated present value of \$490.6 thousand in added tax revenue stemming from the students' higher lifetime earnings and the increased output of businesses. Savings to the public sector add another estimated \$32 thousand in benefits due to a reduced demand for government-funded social services in North Carolina. Throughout the students' working lives, North Carolina taxpayers will receive a total of \$522.6 thousand in benefits.

Throughout the students' working lives, **North Carolina taxpayers** gain in added tax revenue and public sector savings
\$522.6 thousand

