

Technical College Finds Savings with Simulators

North Central Kansas Technical College

North Central Kansas Technical College (NCKTC) was established in Beloit, Kansas in 1964 with a second campus established in Hays in 1975. NCKTC is widely recognized as a leader in technical education. The college offers more than 14 one-year certificate programs and nine Associate of Applied Science Degree programs. NCKTC provides the only training program in the state for Heavy Equipment Operation and is the oldest and most prominent school of its kind in the Central United States. The program offers not only classroom lecture but also simulator training and hands-on, real life experience.

Discovery

NCKTC's Heavy Equipment Operator training program has approximately 40 students attending each year, with another 30 to 40 students on a waiting list to get into the program. Once leaders began offering simulator training as part of the curriculum, it didn't take long to realize a savings benefit. By using simulator training as part of the overall program, actual machines were used less, resulting in cost savings. *Note:* The savings per student outlined below is only based on fuel, maintenance and depreciation of *one* machine. It does not account for additional savings of lost time due to accidents; repairs to damaged equipment, increased insurance costs and instructor labor savings.

Savings

Per-Student Savings: \$243.10

Machine Depreciation	$\$245,000 \div 7 \text{ years} = \$2,916.67 \div 12 \text{ months} = \243.06
Daily Depreciation	$\$243.06 \div 30 = \8.10
Fuel Costs (8 hour day)	$\$4^* \times 7 \text{ units} = \$28 \text{ per hour} \times 8 \text{ hours} = \224 per day

In addition, NCKTC was able to save on instructor labor costs. During simulator training, one instructor could handle three students vs. one instructor to one student when training on actual machines.

Note: Costs for this breakdown are based on *one* machine and *one* simulator. Figure more savings for multiple machines and simulators.

*Cost of fuel will fluctuate with market and by country.

How Can You Benefit?

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