Learning at Washburn Tech
The program, available to only adult students, introduces the basic skills used in commercial and heavy construction projects. It combines lecture, lab and work-site experience where you will utilize your equipment skills. You should have solid math and reading skills before applying to this program. Attending full-day, you can complete the program in two semesters. Upon completion, you will earn a 43-credit-hour technical certificate and be eligible to complete an associate or more advanced degree at Washburn University. In addition, you will be eligible to become a National Center for Construction Education and Research Certified Craft Technician.

Job and Salary Outlook
Employment of construction equipment operators is expected to increase by 12 percent from 2008 until 2018, according to the U.S. Department of Labor. The federal government is likely to spend money on infrastructure improvement projects, such as roads and bridges, meaning more jobs. In 2013, the average salary for an entry-level operating engineer was $12.95 an hour or $26,932 annually, according to the Kansas Department of Labor. The average wage was $16.51 an hour or $34,336 annually.

Entry Requirements
Students are required to meet the minimum score on the assessment test ACT WorkKeys. A score of 4 in both Reading and Math is required. Other assessments or college coursework can be accepted in place of WorkKeys. Please see a recruiter for details. Students also must complete an application and submit an official copy of all transcripts.
Course Descriptions

**Introductory Craft Skills:** covers shop and job site safety, tool safety, personal protective devices, protective railings, proper storage and handling of construction materials and construction drawings

**Field Safety and Orientation:** through a variety of classroom and/or lab activities, the student will explore and demonstrate hazard recognition, signs, signals, barricades, work permits, material handling, specialty work and health issues related to the industry.

**Site Layout I:** introduces the student to site layout and how it applies to commercial sites for building pads and site work

**Site Layout II:** includes surveying math, metric system and conversion between English and metric; concepts of working with formulas and equations will be essential components of the course

**Safety Certifications:** instructs and prepares the student for a certificate in trench safety and competent-person training, confined-space safety certificate and the OSHA 30-hour construction certificate

**Heavy Equipment I:** the student will be introduced to the heavy highway trade of trucks and heavy equipment

**Heavy Equipment II:** focuses on the student's choice of heavy equipment; application of all heavy equipment safety aspects is required

**Heavy Equipment II Application:** laboratory/application course will focus on advancing the skills of the student on heavy equipment; technical knowledge learned in CHC250 will be applied in this course

**Pipe Laying I:** instruction includes proper use of hand and power tools in the pipe laying trade, receiving and inspecting pipe upon arrival on the job site, cutting and fabricating the pipe, discussion of concrete, PVC, and ductile iron pipe, proper elevations, foundations and stabilization, bedding and de-watering practices

**Class A CDL:** provides technical knowledge and skills for the student about various trucks in the 54,000 lb. tag weight and used in construction

A list of required tools is on a separate sheet of paper and on our website, WashburnTech.edu. Students also will need to purchase supplies such as (but not limited to) pens/pencils, notebooks/paper, three-ring binder, etc. Students may purchase them at the vendor of their choice.