NICOLET COLLEGE

Heavy Equipment Operator

Apprenticeship Training

Heavy equipment operators maintain and lubricate the equipment operated by them. They set and check grades, efficiently plan and lay out projects, and operate a variety of heavy equipment.

Program Outline

TERM 1

Course #	Course Title	Credits
5044751000	Heavy Equipment Operator - Classroom Level I This course introduces students to the basic terminology and equipment used in the heavy equipment trade. This course also introduces the student to working around heavy equipment in a safe and responsible manner. The student will learn how to use personal protective equipment, set up barricades and barriers, and use flags and paddles to control traffic. This course also covers trenching and excavation safety precautions. The student will learn what to expect from an apprenticeship program in heavy equipment and what makes a good operator.	2.25
5044751100	Heavy Equipment Operator Hands On Training Level I In this course, the student will learn about the pre-operational checks and operator maintenance tasksfor heavy equipment. The student will learn basic startup procedures and will be introduced to basic operation of various heavy equipment machines. This course will provide students with an opportunity for hands-on machine operation time on primarily level ground. Students will learn the basic concepts and procedures related to the use of heavy equipment by performing earthmoving work. Students will identify and select the most appropriate types of equipment for a given task and then operate the heavy equipment to perform the work. Prerequisite: 5044751000 Heavy Equip Operator Classrm Level I (C or better) (concurrent enrollment allowed).	2.25
5044751200	Heavy Equipment Operator - Classroom Level II This course introduces students to the primary components of a rough-terrain forklift, on-road dump trucks, and skid steers along with prestart inspections, preventive maintenance, and the proper operating procedures. It also provides training on the formulas and calculations used to determine the amounts of soil and other material to be removed from or added to a job-site excavation, focusing on volume and weight calculations. The course also covers the work involved in preparing a site for excavation and construction, along with introducing students to the various types of soils, their properties, and how these properties affect the heavy equipment operator. Prerequisite: 5044751100 Heavy Equip Operator Hands On Level I (C or better).	2.25
5044751300	Heavy Equipment Operator - Hands On Training Level II In this course, the student will continue to learn about the pre-operational checks and operator maintenance tasks for heavy equipment. The student will continue to advance learning startup procedures and will be performing basic operation of various heavy equipment machines. This course will provide students with an opportunity for hands-on machine operation time on both level ground and introduce them to inclined ground. Students will learn general concepts and procedures related to the use of heavy equipment by performing earthmoving work. Students will identify and select the most appropriate types of equipment for a given task and then operate the heavy equipment to perform the work. Prerequisite: 5044751200 Heavy Equip Operator Classrm Level II (C or better) (concurrent enrollment allowed).	2.25

Course #	Course Title	Credits
5044751400	Heavy Equipment Operator - Classroom Level III This course introduces students to common types of equipment and instruments used for finish grading, materials and methods used to stabilize soils and control soil erosion, and finishing and grading methods used for various applications. Students will be able to identify and describe the common uses, types, components, instruments, and controls of backhoes, off-road dump trucks, dozers, wheel loaders, compaction equipment, and excavators. Prerequisite: 5044751300 Heavy Equip Oper Hands On Train Lev II (C or better).	2.25
5044751500	Heavy Equipment Operator - Hands On Training Level III In this course, the student will continue to advance in startup procedures and will be performing more advanced operation of various heavy equipment machines. This course will provide students with an opportunity for hands-on machine operation time on both level and advance inclined ground excavation techniques. Students will learn higher level concepts and procedures related to the use of heavy equipment by performing earthmoving work. Students will identify and select the most appropriate types of equipment for a given task and then operate the heavy equipment to perform the work. Prerequisite: 5044751400 Heavy Equip Operator Classrm Level III (C or better) (concurrent enrollment allowed).	2.25

Total Credits: 13.50

Talk with a Success Coach about the program outline. Together, you will determine if credits you've already earned satisfy any requirements, discuss possible alternative courses, and choose the best classes if you're thinking of transferring.

At A Glance

How You'll Learn

What You'll Learn

- Operate heavy equipment
- Demonstrate a safe working environment
- Perform preventative maintenance procedures on heavy equipment

Your Potential Careers

- Heavy Equipment Operator
- Foreman
- Superintendent
- Estimator
- Project Manager

Median Annual Salary

Local	State	National
$58,605	$64,161	$49,464

EMSI 2022.1

Become A Heavy Equipment Operator

Learn how to apply for an apprenticeship through ABC of Wisconsin. Click on "Get Started" below for more information or call 608-244-6056.

ABC WI | 5330 Wall Street | Madison, WI

GET STARTED