

HEAVY EQUIPMENT OPERATOR (HEO)

HEO 101 Heavy Equipment Operation TrainingI (8 credits)

Heavy Equipment Operation Certificate I has a comprehensive classroom instruction (40 hours), as well as field time on the equipment (80 hours). The instruction is for three weeks and taught in 7 modules. These models include: 1)Orientation to the trade; 2)Heavy Equipment Safety; 3)Identification of Heavy Equipment; 4)Basic Operation Techniques; 5)Utility Tractor Operation; 6)Introduction to Earthmoving; 7)Grades (preparing graded surfaces using heavy equipment). In order to gage the learned skills for each student, written tests will be utilized as well as field tasks for each module and/or machine. This will allow for documented standardized performance feedback as well as provide the candidates with National Center for Construction Education and Research (NCCER) certification.

HEO 102 Heavy Equipment Operation TrainingII (8 credits)

Heavy Equipment Operation Certificate II has a comprehensive classroom instruction (40 hours), as well as field time on the equipment (80 hours). The instruction is for three weeks and taught in 14 modules. These models include: 1). Introduction to Earthmoving; 2). Dump Trucks; 3). Rollers. 4). Scrapers; 5). Loaders; 6). Grades part 2; 7). Civil Blueprint Reading; 8). Bulldozers; 9). Backhoes; 10). Excavators; 11). Motor Graders; 12). Advanced Operational Techniques; 13). Finishing and Grading; and 14). Soils. In order to gage the learned skills for each student, written tests will be utilized as well as field tasks for each module and/or machine. This will allow for documented standardized performance feedback as well as provide the candidates with National Center for Construction Education and Research (NCCER) certification. Prerequisite/s: HEO 101

HEO 103 Excavation Certification (2 credits)

The Occupational Safety and Health Administration (OSHA) requires that anyone operating heavy machinery, like an excavator, be certified. This course is designed to provide students the in class preparation and hands-on practice for industry certification.

HEO 105 Heavy Equipment GPS (3 credits)

This course will teach students to use Global Position System (GPS) technology used in heavy equipment. Students will learn how the GPS system allows the equipment operator to make decisions based on actual grade and design features and increase the overall efficiency of a job.

HEO 107 Project Layout (3 credits)

Students will get in-depth knowledge 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