

Heavy Equipment Operator Certificate



Description

The Olds College of Agriculture & Technology Heavy Equipment Operator Certificate program prepares the graduates for entry into heavy equipment.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Employ current Occupational Health and Safety and relevant industry standards and procedures in the workplace.
2. Apply the skills required in industry standard safety certificates and programs.
3. Communicate interactively in a professional manner with industry associates.
4. Demonstrate employability skills and professional conduct.
5. Demonstrate workplace skills in an industry-related environment.
6. Demonstrate required fieldwork and jobsite fundamentals.
7. Demonstrate the correct procedures for preventative maintenance of selected pieces of equipment.
8. Demonstrate general principles of operation of selected pieces of equipment.
9. Develop skills that support successful employment in the heavy equipment operation industry.

Requirements:

Course List

Course Credits
(Total Credits:15)

HEO	6001	Workplace Safety and Safety Tickets	3
		Students will develop safety skills by completing industry standard safety certificate courses and apply health, safety and environmental procedures and practices based on applicable legislated rules and regulations. Emphasis will be placed on responsibilities and obligations of employers and employees regarding health, safety, and environment.	
HEO	6002	Introduction to Earthmoving (3-3-0)	3
		Students will receive a comprehensive overview of earthmoving equipment and its uses. This course outlines career opportunities, operator responsibilities, and workplace fundamentals associated with heavy equipment operation. Students are exposed to various heavy equipment industries through hands-on practical experience – both on-site, as well as field trips/guest speakers.	
HEO	6003	Equipment Operation and Preventative Mechanical Maintenance	3
		Students are introduced to fundamentals of heavy equipment operation and preventative maintenance procedures and practices including inspections, start-up and shut-down procedures, and monitoring. This course will outline the operator's and company's responsibilities for industry accepted practices.	
HEO	6004	Fieldwork and Jobsite Fundamentals	3
		Students are provided instruction for the safe operation and conduct on and around a jobsite. Students are introduced to the fundamentals of soil structure, grades and staking, and excavation math. Industry terms and symbols utilized on site plans associated with heavy equipment operation are also identified in this course.	
HEO	6005	Earthmoving Operational Techniques	3
		Students will demonstrate the industry accepted practices and procedures of safe operation, preventative maintenance, basic movements and general principles of operation of selected earthmoving equipment and its attachments.	
HEO	6006	Heavy Equipment Operator Practicum (0-0-0)	0

Students will further develop their skills in an industry-related worksite position where they apply competencies acquired during their education and training. Students expand their knowledge and experience in this 80 hour practicum.

Graduation Requirements

- Completion of 15 credits
- Completion of all required of courses and credits as per Program of Study
- Cumulative program G.P.A. of 2.00 or better
- Provide documentation/proof of completion of practicum
- Satisfactory completion of occupational experiences and/or assignment, if required

Changes to this Program

Every effort has been made to ensure that information in this program is accurate at the time of publication. The College reserves the right to change programs if it becomes necessary so that program content remains relevant. In such cases, Olds College will provide clear and timely notice of the changes.

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