

HEAVY EQUIPMENT OPERATIONS

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The Heavy Equipment Operator curriculum prepares students to efficiently operate heavy equipment such as dozers, loaders, scrapers, and graders and to perform basic preventive maintenance on most types of heavy equipment.

Coursework includes construction safety, property equipment operation, grades, drawings, environmental concerns, heavy equipment design characteristics and features, equipment maintenance, and common equipment systems.

Graduates of this program may find employment with state and local government agencies and private contractors engaged in highway or other construction activities.

Learning Outcomes

Upon completion of this program:

- The student will be able to determine the safety level of heavy equipment machinery.
- Given dimension and elevation specifications, the student will be able to lay out level pad sites.
- Given site layout and elevation grade, the student will be able to grade a dirt pad.

Note:

To enroll in HEO 111, students must be:

1. High school graduates accepted into the heavy equipment program,
OR
2. CCP students who have completed the Heavy Equipment Operator – CCP pathway AND who will turn 18 before the beginning of the 25% point of the HEO 111 course (normally the 4th week for a 16 week course.

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- Heavy Equipment Operations Diploma (p. 1)
 - Basic Operational Techniques Certificate (p. 1)
 - Heavy Equipment Introduction to Operations in Construction (p. 1)
 - Intermediate Operational Techniques Certificate (p. 2)
 - Heavy Equipment Operator - CCP (p. 2)

Heavy Equipment Operations Diploma – D35340

Gainful Employment Disclosure (<https://www.stanly.edu/ajax/gedt/ED35240.pdf>)

Course	Title	Credit Hours
First Year		
Fall		
HEO 111	Heavy Equipment Operations I	12
ISC 115	Construction Safety	2
ISC 121	Environmental Health & Safety	3
ACA 111	College Student Success	1
ENG 101 or ENG 111	Applied Communications I or Writing and Inquiry	3
Credit Hours		21
Spring		
HEO 112	Heavy Equipment Operations II	12
HEO 113	Grades and Drawings	3
MAT 110 or MAT 143	Mathematical Measurement and Literacy or Quantitative Literacy	3
Credit Hours		18
Total Credit Hours		39

Basic Operational Techniques Certificate – C35340B

Course	Title	Credit Hours
First Year		
Fall		
HEO 111	Heavy Equipment Operations I	12
ISC 115	Construction Safety	2
ISC 121	Environmental Health & Safety	3
Credit Hours		17
Total Credit Hours		17

Heavy Equipment Introduction to Operations in Construction - C35340C

Course	Title	Credit Hours
Fall		
ACA 111	College Student Success	1
ISC 115	Construction Safety	2
ISC 121	Environmental Health & Safety	3
ENG 101 or ENG 111	Applied Communications I or Writing and Inquiry	3
Credit Hours		9
Spring		
HEO 113	Grades and Drawings	3
MAT 110	Mathematical Measurement and Literacy	3
Credit Hours		6
Total Credit Hours		15

Intermediate Operational Techniques Certificate – C35340I

Course	Title	Credit Hours
Fall		
ISC 115	Construction Safety	2
	Credit Hours	2
Spring		
HEO 112	Heavy Equipment Operations II	12
HEO 113	Grades and Drawings	3
	Credit Hours	15
	Total Credit Hours	17

Heavy Equipment Operator - CCP

Tuition-waived program for Career & College Promise (<https://www.stanly.edu/future-students/career-college-promise/>) (high school students)

Course	Title	Credit Hours
Fall		
ACA 111	College Student Success	1
ISC 115	Construction Safety	2
ISC 121	Environmental Health & Safety	3
ENG 101	Applied Communications I	3
	Credit Hours	9
Spring		
HEO 113	Grades and Drawings	3
MAT 110	Mathematical Measurement and Literacy	3
	Credit Hours	6
	Total Credit Hours	15

View our videos! (<https://www.stanly.edu/future-students/educational-offerings/heavy-equipment-operations/view-our-videos/>)