

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.

- 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. 1)
- Heavy Equipment Operator - CCP (p. 2)

Heavy Equipment Operations Diploma – D35340

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

| 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 juniors and seniors)

| 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>)