

Professor Henry Koffman

Construction Methods and Equipment

How well did you learn?				
Not at all → Very Well				
1	2	3	4	5
CIRCLE YOUR RATINGS				
↓ BELOW ↓				

**Course Objectives and Outcomes**

**Objective.** Students to become familiar with the ownership and operating costs for construction equipment.

**Outcome.** How well did this course increase your ability to understand and/or do the following?

1	Factors in selecting equipment, equipment cost	1	2	3	4	5
2	Moving earth, soil compaction and stabilization	1	2	3	4	5
3	Tractors and Related Equipment	1	2	3	4	5
4	Scrapers	1	2	3	4	5
5	Cranes	1	2	3	4	5
6	Excavating equipment	1	2	3	4	5
7	Trucks and wagons	1	2	3	4	5
8	Pile driving	1	2	3	4	5
9	Asphalt and concrete	1	2	3	4	5
10	Time value of money	1	2	3	4	5
11	Components of equipment cost	1	2	3	4	5

**Objective.** To study and become familiar with the types and functions of common construction equipment.

**Outcome.** How well did this course increase your ability to understand and/or do the following?

12	Identify equipment types and their functions	1	2	3	4	5
13	Calculate production rates based on equipment type	1	2	3	4	5

**Objective.** To become familiar with the process of analyzing a construction project and effectively planning the use of equipment to complete the project

**Outcome.** How well did this course increase your ability to understand and/or do the following?

14	Recognition of equipment alternative to complete a task	1	2	3	4	5
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**Objective.** To develop Professional Skills

**Outcome.** How well are you able understand and/or do the following?

15	Join Professional Organizations (ASCE, AGC, etc.)	1	2	3	4	5
16	Participate in Professional conferences (Reno), Meetings, Symposium, etc.	1	2	3	4	5
17	Learn about Professional Registration	1	2	3	4	5

**Relationship of Civil Engineering Program Course Objectives to Outcomes**

**Objective.** The Civil Engineering program is designed to teach beyond the technical content of the curriculum and prepare the students to utilize what they learn in a professional setting. Engineering projects and research activities enlist skills and demonstrate ability to understand the subject matter and communicate in a proficient manner. This course contributes to the overall program goals in the following ways.

**Outcome.** How well did this course increase your ability to understand and/or do the following?

(a)	an ability to apply knowledge of mathematics, science, and engineering	1	2	3	4	5
(d)	an ability to function on multi-disciplinary teams	1	2	3	4	5

(e)	an ability to identify, formulate, and solve engineering problems	1	2	3	4	5
(f)	an understanding of professional and ethical responsibility	1	2	3	4	5
(g)	an ability to communicate effectively	1	2	3	4	5
(h)	the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	1	2	3	4	5
(i)	a recognition of the need for, and an ability to engage in life-long learning	1	2	3	4	5
(j)	a knowledge of contemporary issues	1	2	3	4	5
(k)	an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	1	2	3	4	5