

# ATOE-2600: BULLDOZER PRACTICE

---

## Cuyahoga Community College

### Viewing: ATOE-2600 : Bulldozer Practice

**Board of Trustees:**

2001-03-22

**Academic Term:**

Spring 2019

**Subject Code**

ATOE - Appd Ind Tech-Operating Engin.

**Course Number:**

2600

**Title:**

Bulldozer Practice

**Catalog Description:**

Study of standard features, standard procedures, tools, inspection, and controls of bulldozers. Topics include attachments, terminology, inspection and controls.

**Credit Hour(s):**

3

**Lecture Hour(s):**

3

**Lab Hour(s):**

0

## Requisites

**Prerequisite and Corequisite**

ATOE-1650 Graders and Plans, or ATOE-2640 Advanced Grader Practice or concurrent enrollment; or departmental approval.

## Outcomes

**Course Outcome(s):**

N/A

**Objective(s):**

1. Identify standard features, attachments, and terminology related to bulldozers.
2. Conduct a normal pre-operation inspection.
3. Demonstrate knowledge by properly using major equipment controls.
4. Operate equipment using standard operation procedures.

---

**Methods of Evaluation:**

1. Quizzes
2. Exams
3. Classroom participation

**Course Content Outline:**

1. Standard features
  - a. Tractor
  - b. Crawler
  - c. Blade
2. Attachments

- a. Angle blade
- b. Side boom
- c. Root plow
3. Terminology related to bulldozers
  - a. Grousers
  - b. Sprockets
  - c. Idler
  - d. Elevated sprocket
  - e. Conventional sprocket
  - f. Rock guard
4. Pre-Operation inspection
  - a. Undercarriage preparation
  - b. Track adjustments
  - c. Stringline procedure
  - d. Relief valve procedures
  - e. Conventional sprocket adjustments
5. Equipment controls
  - a. Brake
  - b. Governor
  - c. Decelerator pedal
  - d. Brake pedal
  - e. Blade height
  - f. Steering and directional lever
  - g. Steering clutches
  - h. Attachment controls
6. Standard operation procedures
  - a. Safety
    - i. safety equipment
    - ii. use of flaggers
    - iii. site assessment
  - b. Bulldozer positioning
7. Equipment operation
  - a. Stockpiling
  - b. Towing
  - c. Towing by cable
  - d. Excavating above proposed grade
  - e. Filling
  - f. Backfill of a foundation area
  - g. Ripping
  - h. Rough ditching
    - i. Stripping
    - j. Winching
    - k. Yo-yoing
    - l. Sloping

## Resources

International Union of Operating Engineers, Local #18--Apprenticeship and Training. "Training for Operating Engineers, First Year"

---

International Union of Operating Engineers, Local #18--Apprenticeship and Training. "Training for Operating Engineers, Second Year, Book Two"

---

International Union of Operating Engineers, Local #18--Apprenticeship and Training. "Operating Engineers, Second Year Student Workbook, Book One"

---

Key: 540