

# Heavy Construction Equipment Operator Training Program Continuing Education



**Please contact the following persons for more information:**

Amy Parsons  
423-697-3316 (Phone)  
[amy.parsons@chattanoogastate.edu](mailto:amy.parsons@chattanoogastate.edu) (E-Mail)

Joyce Brinkmeyer  
423-697-3329 (Phone)  
[joyce.brinkmeyer@chattanoogastate.edu](mailto:joyce.brinkmeyer@chattanoogastate.edu) (E-Mail)

---

## **Program Details:**

- Length: 275 Clock Hours
- 7.5\* hours x 5 training days = 7.5 training weeks (full-time) (\*times may vary contingent on weather)
- Class size is limited to 12 students
- Equipment provided by Power Equipment Company (Komatsu)
- Equipment types: Tracked Excavator, Bulldozer, Rubber-tired Scoop Loader, Rubber-tired Backhoe, and Skid Steers

---

**Program Cost: \$3,495**

---

**Program Dates:**

*Session 1:* April 20 - June 19, 2009

*Session 2:* June 29 - August 21, 2009

*Session 3:* August 31 - October 23, 2009

---

**Credential Awarded:** NCCER Certificate of Training

---

**Projected Training Calendar:**

Phase	Event	Location	Start Date	End Date	Hours
Phase I	OSHA 10	CSTCC Campus			10
Phase II	Common Core	CSTCC Campus			45
Phase III	Field Training	ETG Borrow Pit			180
				<b>TOTAL HOURS</b>	<b>275</b>

**Classroom Instruction Summary of Hours:**

Phase	Title	Hours
Phase I		
<b>OSHA 29 CFR 1926</b>	OSHA 10 Training	1.0
Phase II		
	Orientation to the Trade	1.0
	Safety	3
	Heavy Equipment	2.5
	Basic Operating Techniques	1.5
	Grades, Part One / Laser Assisted Grading	10.0
	Civil Blueprint Reading (Intro)	5.0
	Below Grade Construction	3.0
	Heavy Equipment; Introduction to Earthmoving	8.0
	Bulldozers; Crawler Tractors	1.5
	Telescoping Excavators	1.5

	Rubber-Tired Backhoes	1.5
	Front-End Loaders	1.5
	Introduction to Light Equipment (Skid Steers)	1.5
	Motor Graders (If available)	1.5
	Basic Employability Skills	2.0
	<b>Total Classroom Hours</b>	<b>45</b>
Phase III	Hands-on Training summary of hours (Field)	
<b>Crawler Tractor Objectives</b>	Perform Operator's Level Preventative Maintenance	3.5
	Explain the safety precautions of dozer operation	1.5
	Demonstrate the ability to safely operate a dozer	20
	Demonstrate the use of various dozer controls	5
	Demonstrate clearing & grubbing operation	10
	Demonstrate ditching & sloping procedures	15
	<b>Total Hours:</b>	<b>65</b>
<b>Excavator Objectives</b>		
	Perform Operator's Level Preventative Maintenance	3.5
	Explain the safety precautions for excavator operation	1.5
	Demonstrate the ability to safely operate an excavator	15
	Demonstrate the use of various excavator controls	5
	Dig a trench (or similar excavation) to specifications	15
	Perform Pipe-Laying operations	8
	Demonstrate truck loading operations	7
	<b>Total Hours:</b>	<b>75</b>
<b>Rubber-Tire Backhoes and Scoop Loaders</b>		
	Perform Operator's Level Preventative Maintenance	3
	Explain the safety precautions for backhoe	2
	Demonstrate the ability to safely operate a backhoe	45
	Demonstrate the use of various equipment controls	

	Dig a trench (or similar excavation) to specifications	
	<b>Total Hours:</b>	<b>50</b>
<b>Rubber-Tire Scoop Loaders w/Fork Attachment</b>	Perform Operator's Level Preventative Maintenance	3
	Explain the safety precautions for loader operation	2
	Demonstrate the ability to safely operate a scoop loader	23
	Demonstrate truck loading operations	
	Demonstrate the use of various equipment controls	
	Perform fork-lift operations	2
	<b>Total Hours:</b>	<b>30</b>
	<b>Total Equipment Hands-on Training Hours:</b>	<b>220</b>
	<b>Total Course Clock Hours:</b>	<b>275</b>