

CON 4006 Construction Equipment Graduate Student Project

The CON 4006 homework assignments have focused on problem solving and production estimating for construction equipment. We have covered safety aspects of each equipment type as part of the classroom lectures. The graduate student project will focus on developing an in-depth understanding of one aspect of construction safety and presenting your findings. OSHA references are to 29 CFR 1926.

Each graduate student will research one of the following subjects and submit a 500 word paper by April 19th. Each graduate student will also give a 5-10 minute presentation in class during session 27 (April 19th) or 28 (April 21st). Sign up for a topic by Thursday March 17th. If you have a different subject that interests you that is not listed, check with me.

Subject	Name
51st Street Crane failure New York City	<u>Hirvi Vimawala</u>
OSHA Personal Protective Equipment	_____
OSHA Supported Scaffolds (Subpart L)	_____
OSHA Steel Erection (Subpart K) Structural stability	_____
OSHA Fall Protection (Subpart M)	_____
OSHA Cranes (Subpart N)	_____
OSHA Rollover Protection (Subpart W)	_____
Fermi Drilling Rig Operator Injury Report DOE	_____
Fatal Bobcat - Backhoe Accident at the White Bluffs Substation DOE	_____
Leg Injury Brookhaven National Laboratory Construction Project	_____
Collapse of roof trusses in Township of Franklin, NJ. OSHA	<u>Satish Ganasala</u>
Collapse of Tilt-Up Precast Concrete Wall Panels in Greensboro, NC. OSHA	_____
Collapse of Deep South Crane at Lyondell Basell Refinery OSHA	_____
Collapse of a Mobile Crane Washington DC Cathedral DC OSHA	_____
Parking garage collapse during construction Miami Dade College OSHA	_____
Worker struck by falling wall form Worksafe BC	_____
Young worker falls from third-story balcony Worksafe BC	<u>Rahul Rachuri</u>

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Overhaul ball falls from crane, striking worker

Worksafe BC

Worker falls from ladder when gutter hits high-voltage line

Worksafe BC
Worker dies after being thrown back by concrete pump hose

Worksafe BC
Young Worker Injured when excavation wall collapses

Worksafe BC
Walls collapse onto street during demolition

Joel Potia

Dinesh Mundluru

Veeranjaneyulu Tella

Swar Prajapati

Resources:

<https://www2.worksafebc.com/topics/AccidentInvestigations/IR-Construction.asp>

<https://www.osha.gov/doc/engineering/EXengrptsr.html>

<http://operatingexperience.doe-hss.wikispaces.net/Type+A+Accident+Investigations>

51st Street Report: <http://www.nyc.gov/html/dob/html/guides/publications.shtml#51st>

OSHA Safety Tools Multimedia: <http://www.osha.gov/SLTC/multimedia.html>

OSHA eTools: http://www.osha.gov/doc/construction_ecats.html