



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis



Safety Information for The University of North Carolina at Chapel Hill


JOB SAFETY ANALYSIS TOPIC:

**Energy Services CoGeneration Facility
Operating a Lathe at the Maintenance Shop**



Title	Work Task	Hazards	Controls
	1. Preparing plant equipment to be worked (e.g. shafts and other metal parts)	1. Untrained operator which could result in an accident and injury.	1a. "Hands-On" Training of the operation of the lathe by only qualified, most experienced Maintenance Mechanic. 1b. Perform a pre operational check and review safety instructions before operating. 1c. Do not wear loose clothing or clothing that extends near the hands, or gloves, or jewelry that could get caught in equipment during operation.

Work Task	Hazards	Controls
<p>2. Place metal stock in place, adjust the tool bit, adjust computer specifications for operation to adjust speed and dimensions; begin operating the lathe.</p>	<p>2. Injury to exposed body parts (e.g. loss of fingers or crushing body parts) by the lathe at points of operation.</p>	<p>2a. Cover all points of operation with required guards before operating lathe as illustrated below:</p> <p>BEFORE:</p>  <p>AFTER PLACING GUARD IN PLACE:</p> 

Work Task	Hazards	Controls
3. Lathe in operation	3a. Injury to exposed body parts (e.g. loss of fingers or crushing body parts) by the lathe at points of operation.	<p>3a. Keep body parts and clothes away from the point of operation of the lathe.</p> <p>3b. Keep foot on emergency break in the event the lathe needs to be emergency stopped during operation (Illustration provided below):</p>  <p>3c. Wear Safety Glasses or Face Shield during operation of the lathe.</p>
Work Task	Hazards	Controls
4. Completing work.	4a. Injury to exposed body parts (e.g. loss of fingers or crushing body parts) by the lathe at points of operation.	4. Ensure equipment is de-energized prior to placing hands near the point of operation of the lathe.

Training	“Hands-On” Training of the operation of the lathe by only qualified, most experienced Maintenance Mechanic.	Training Records must be maintained by the Supervisor.
Created	Daniel R. Gilleski, Occupational Field Hygienist, & Roger Phillips, COGEN Maintenance Mechanic September 22, 2008	
Referenced Material	Machine Guarding Requirements- 29 CFR 1910.212(a)(3)(i) EHS Industrial Maintenance and Construction/Support Services Safety Manual- Machine Safeguarding Requirements	
Contact Info	<p>For more information about this JSA and other JSAs, contact:</p> <p><i>Department of Environment, Health and Safety</i> UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650</p> <p>(919) 962-5507 ● http://ehs.unc.edu</p>	