



Department of Engineering Technology

LABORATORY SAFETY ANALYSIS

OPERATING A SAMPLE SPLITTER

Location: Smith 131 and Smith 133

Required Training: Sample Splitters are designed and intended for use by properly trained and experienced operators. If you are not familiar with the proper and safe operation of this apparatus, do not use until proper training and knowledge have been obtained.

Required Personal

Protective Equipment (PPE): Safety glasses, dusk mask in dusty work conditions

Reference Materials: Manufacturer's safety rules and operating instructions

PHOTOS	TASK	HAZARDS	CONTROLS
	Wear clear safety glasses with side shields and if necessary use a dust mask	Flying debris and dust particles	<ul style="list-style-type: none"> Students are required to provide their own safety glasses. See laboratory instructor or laboratory manager if you do not have safety glasses before proceeding to use equipment.
	Inspect safety glasses for cracks, scratches or other damage. Ensure the ANSI standard Z87.1 is stamped into the side of glasses. If necessary inspect dust mask or face mask.	Flying debris and dust particles	<ul style="list-style-type: none"> If defects are found report this to your laboratory instructor before using.
	Put on all necessary PPE	Flying debris and dust particles	<ul style="list-style-type: none"> Always wear safety glasses. Use a dust mask in dusty work conditions.
	Inspect work area, walk around sample splitter looking for debris and ensure adequate lighting.	Slips, trips & falls	<ul style="list-style-type: none"> Remove any debris that could possibly cause a injury. Keep work space around splitter free from loose aggregates and other materials which may cause a tripping hazard. Make sure sample splitters are located on level surfaces to prevent tipping over while under operation.
	Placing test sample into sample splitter	Struck by flying debris, laceration, Injury	<ul style="list-style-type: none"> Devote your individual attention to the work being performed. Use care in lifting and placing test sample into splitter. Ask for help or use the assistance of a lifting device to place test material into splitter weighing more than 25 pounds.

			<ul style="list-style-type: none"> Avoid awkward work positions; they could result in slips which may cause contact with the saw blade.
	Operating sample splitter.	Struck by flying debris, pinch point Injury	<ul style="list-style-type: none"> Keep hands and fingers away from trap door release mechanisms to prevent pinching injuries. Operate sample splitter using release levers. Do not use hands to open trap doors.
	Clean work area and return all PPE to clean, dry storage area.	Injury	<ul style="list-style-type: none"> To ensure adequate housekeeping measures to prevent accidents.

For more information about this LSA, contact the *Department of Engineering Technology* at UNC Charlotte (704) 687-2305
 Please visit our website at: <http://www.et.uncc.edu>

The development of Laboratory Safety Analyses is a very effective means of helping reduce incidents, accidents, and injuries in the workplace. It is an excellent tool to use for training purposes and can also be used to investigate "near misses" and accidents.