LSA Reference No.: ELET005
Created By: Rick Graley
Approved By: Robert H. Swan, Jr.
Date Created: August 29, 2010
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OPERATING A FUNCTION GENERATOR

<u>Location</u>: All Smith Electrical/Computer Engineering Technology Labs.

<u>Required Training:</u> A Function Generator is designed and intended for use by properly trained and experienced operators. If you are not familiar with the proper and safe operation of the equipment, do not use until proper training and knowledge have been obtained.

Required Personal

Department of Engineering Technology

Protective Equipment (PPE): Safety glasses, closed toed shoes.

Reference Materials: MCM Electronics/ Manufacturer's safety rules and operating instructions

Рнотоѕ	Task	Hazards	Controls
TEMMA 727650 SECONDATION FREQUENCY FREQUE	Wear clear safety glasses with side shields.	Flying debris	 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.	Flying debris	If defects are found report this to your lab instructor before using.
	Put on PPE	Flying debris	Always wear safety glasses.
	Inspect work area.	Slips, trips & falls.	Keep the work area free from scraps, dust, oil and grease.
	Preparing to operate a function generator	Shock Hazard	 Read operating instructions thoroughly and completely before operating the function generator. Note all cautions very carefully. Always inspect your Function Generator power cord and accessories for any signs of damage or abnormalities before every use. If the electrical cord is damaged or worn the electrical cord should be unplugged and tagged "Out of Service-Do Not Use".

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			 This should be reported to your laboratory manager immediately. Electrical cord replacement should only be conducted by a factory authorized technician.
	Ensure the electrical cord is connected to the outlet.	Shock Hazard/ Damage to the Function Generator	Caution: Always remember to disconnect the electrical power cord when operation is complete or when you leave the work station for an extended period of time.
	Operating a function generator by turning on the power switch	Shock Hazard/ Damage to the Function Generator	Turn on power by toggling the on/off power switch located on the front panel of the instrument
	Maintenance	Shock Hazard/ Damage to the Function Generator.	Keep the function generator dry and dust free. If it gets wet, wipe it dry immediately. Liquids can contain minerals that can corrode electronic circuits. Use and store the function generator only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, and distort or melt plastic parts. Handle the equipment gently and carefully. Dropping it can damage the circuit boards and cause the function generator to work improperly.
	Clean work area and return all PPE to a clean storage area.	Injury	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.

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