INDT 100 Lesson 5

Week #:	3 Lesson 5	Subject:	Power Supplies	Prepared By:	Zack Jacobson
Overview				Purpose	

Power generation

Purpose Introduction to Portables and AGE....

		Teacher's or other reference	
Objectives Skills/information that will be learned.	Realize power comes in different forms DC sources: Chemical, Generator, Solar AC: Inverters, Alternators		Materials Needed •
Information (Give and/or demonstrate necessary information)	Ch. 22 is a start. Discuss battery and testing Generation break down a generator Break down an alternator Discuss Faradays law of induction.	Emf=NABSine(<i>w</i> t) EMF=volts N=turns of wire A=circle area of wrapped wire B=Mag field Wt=position (Note if position changes with time?More Emf) (Divide by R we have I. Multiply ExI we have power	
Verification (Steps to check for student understanding)	Show Them sine waves. Make a small generator and have it run		Other Resources
Activity (Describe the independent activity to reinforce this lesson)	Have them hook two generators (motors) together have one run the other Have them rectify an A/C output. Stepper motors are good here too	A great Lab opportunity	
Summary			Additional Notes