Northwest State Community College

Module Learning Sequence

Course Number and Title:		IND220 Electrical Prints & Troubleshooting			
Module # and Topic Title:		Module #2: Troubleshooting Electrical Circuits II			
Semester:		Any – Last updated – 9/2/20			
ACTIVITY		DESCRIPTION	TIME ON TASK	POINTS	
Reading Activity	Troubleshoo Proctor, Thin *Electrical S Series/Parall Solarcells	ting Electrical/Electronic Equipment, by Mazur and rd Edition: <i>Chapter 3</i> – Symbols and Circuits; symbols and Abbreviations: Series, Parallel, el Connections *Circuit Polarity, Batteries and	Est. TOT 5.0 Hr.		
	Chapter 7 – Recording N Effect, Voltr Troubleshoo	Branch Circuit Voltage Drop Measurements, Iinimum and Maximum Readings; *Meter Loading neter Circuit Connections, Harmonic Distortions; * ting Fuses, Troubleshooting Circuit Breakers Electrical Symbols: Pgs 590-591			
Learning Activity	Learning Ac * Video: Ho * PDF: IND * PDF: Link Schematic D * PDF: Link * PDF: Link * PDF: Link * PDF: Link * Video: Exj * Video: Exj * Video: Exj * Video: Exj * Video: Trr	tivities: w 3-way switches work in your home 220 Module 2 Basic Electrical Symbols 081820.pdf to the EATON Comparison of NEMA and IEC viagrams to Explanation of Switches to an illustration of various types of switches to Switches Demystified planation of Lab 2.1 Circuits 1 and 2 082620 planation of Lab 2.3 Circuit 1 082420 planation of Lab 2.3 Circuit 2 082420 planation of Lab 2.3 Circuit 2 082420	Est. TOT 4.0 Hr.		
KAA Lab Exercise	IND220 Mo IND220 Mo IND220 Mo IND220 Mo	dule 2 KAA Study Guide.pdf dule 2 KAA Practice Quiz dule 2 Knowledge & Application Assessment (KAA)	Est. TOT 3.0 Hr.	Min. of 80%	
	(Automation	Studio files included in Sakai)	1.5 Hr.		
Lab Exercise	IND220 Lab	2.2 HL 3 and 4-way Switch and Motor Circuits.pdf	Est. TOT 1.5 Hr.		
Lab Exercise	IND220 Lab (Automation	2.3 AS Troubleshooting Basic Electrical Circuits.pdf Studio files included in Sakai)	Est. TOT 1.5 Hr.		
Lab Exercise	IND220 Lab	2.4 HL Troubleshooting Basic Electrical Circuits.pdf	Est. TOT 1.5 Hr.		
Lab Exercise	IND220 Lab Circuit.pdf	2.5 AS Troubleshooting Faults in an Electrical (Automation Studio files included in Sakai)	Est. TOT 1.5 Hr.		



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Hands-On	Hands-On Assessment for Module 2	Est. TOT	Min. of
Assessment		1.0 Hr.	100%
TOTAL		Approx.	18-20
		19 Hrs	hrs. per week