## **TASK LISTING**

ET 222 Internship	Credit:	redit: 4		192
Course No. Title				Total Hrs

STUDE	NT LEARNING OUTCOMES	Allotted Hours
1.	Estimate electrical material from the blueprint	
	a. List materials	
	a. Cost of materials	
	b. Service entrance and overcurrent protecting device sizing	
2.	Locate and Install electrical device according to the blueprint (Rough-In all	10
	electrical device	
	a. Lighting circuits	
	b. Appliance circuits	
	c. Special purpose outlet	
	d. Power panel	
	e. Service entrance	
3.	Layout conduit and cable according to the latest edition of National	12
	Electrical Code	
	a. Cable (romex wire)	
	b. EMT conduit	
	c. Rigid conduit	
	d. PVC conduit	
4.	Install wiring devices and protection system according to plans and	15
	specifications	
	a. Lighting fixture	
	b. Small appliance outlet	
	c. Special outlet	
	d. Power panel	
5.	Commission electrical system	10
	a. Perform insulation resistance, ground fault and short circuit testing	
	b. Check all circuits for functionality	
6.	Troubleshoot and repair electrical installation	15
	a. Locate faulty circuit using VOM	
	b. Replace faulty circuit breaker, fuse and other electrical devices	
	a. Balance the load	
7.	Install, repair and maintain transformers.	
	a. Install dry type transformer	25
	b. Perform transformer banking to suit for voltage and power	
	requirements.	
	c. Repair and maintain transformer	
8.	Troubleshoot and repair electric motors	
	a. Analyze single phase motor troubles	30
	b. Recognize connections	
	c. Identify troubles and remedies for three phase and single phase motors.	
	d. Replace centrifugal switch	
	e. Replace bearing/bushing	
	f. Lubricate bearing/bushing	
	g. Reconnect capacitor motor to suite for a change in voltage	
	h. Rewind single phase/three phase motor	
9.	Perform preventive maintenance for all electrical installation	15

a.	Proactive maintenance by inspect all electrical system and repair or	
	replace before it becomes major problems	
10. Select and install, electrical motor and motor control		
a.	Install electrical motor	
b.	Install motor controls and starters.	
C.	Troubleshooting motor controller	
11. Troubleshoot and repair generator		25
a.	Troubleshoot and repair generator	
b.	Perform insulation testing	
C.	Test run the generator	
d.	Lubricate mechanical parts of generator	
	TOTAL	192