

**LearningDIRECTION Inc.**  
**Carpentry, Electrical, Plumbing**  
**DACUM Chart Electrical**

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>1. Safety</b>	Perform good housekeeping.	Select protective equipment.	Maintain tools in safe condition.	Work safely on ladders and scaffolds.	Work safely around live equipment.	Fire protection equipment	Operate vehicles safely
<b>2. First Aid</b>	Certified First Aid course						
<b>3. Hand Tools, power tools and instruments</b>	Select proper tools	Use hand tools	Use conduit tools	Use power operated tools	Use powder activated tools	Use builders level.	Use electrical instruments
	8. Care for and storage of tools and instruments						
<b>4. Plan, layout and estimate</b>	Interpret diagrams	Draw schematic and wiring diagrams	Interpret blueprints and specifications.				
<b>5. Wiring methods.</b>	Install NMSC and fittings	Install armoured cable and fittings	Install AS cable and fittings	Install MI cable and fittings	Install TECK cable and fittings	Install rigid conduit and fittings	Install EMT and fittings
	8. Install flexible conduit and fittings	9. Install PVC conduit and fittings.	10. Install surface raceways and fittings	11. Install liquid tight flexible fittings	12. Install overhead cable.	13. Install underground cable	

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6. Branch Circuits	Determine service requirements	Layout branch circuits	Install outlet boxes	Install circuit runs.	Make wire connections	Connect devices and equipment	Install equipment bonding
	8. Test installation.	9. Troubleshoot repair branch circuits.					
7. Services and Distribution	Determine service requirements	Determine location and layout of service	Install service equipment	Install service conductors	Install service grounding	Install current devices	
8. Motors, control and vacuum contactors	Determine requirements for motors	Install motor controls	Install motor conductors	Install control conductors	Install motor protective device	Test installation	
9. Control, alarm and signalling systems.	Install remote control equipment.	Install door chime.	Install control system.	Test installation			
10. Transformers	Interpret transformer connection diagrams	Install grounding systems for transformers	Connect transformer	Test installation			
11. Lighting	Determine system requirements	Determine location and layout	Install control devices and electronic controls	Test installation			

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12. Power generation and conversion	Determine location and layout	Install AC generator equipment.	Install DC generator equipment.	Install standby and supplemental power equipment			
13. Hazardous and corrosive locations	Determine class and division of hazard.	Determine category of location.	Determine wiring requirements.	Install equipment	Install conductors	Connect outlets and devices.	Test installation
	8. Troubleshoot and repair hazardous and corrosive equip.						
14. Rigging	Select proper rigging equipment.	Erect scaffolding.	Devices and tools used in rigging.				