

SAMPLE COMPETENCIES OUTLINE ELECTRICAL - YEAR ONE	LEVEL 1								Please complete this table every six months throughout your apprenticeship. Identify the Activity / Experience you have acquired with one of the applicable category numbers listed below: (1) no experience (2) observed only (3) received job-site instruction (4) had practical experience (5) achieved reasonable competence (6) achieved proficiency
	First Term				Second Term				
Demonstrate proper care and use of hand and power tools									Employers must encourage the development and application of safe work habits by the apprentice during all phases of the On-the-job training.
Read and interpret blueprints and schematics									
Apply safe rigging procedures / WCB Regulations									
Install plugs, receptacles and other common electrical circuit devices									
Identify branch circuit current loads									
Demonstrate safe use of ladders and scaffolding									
Install switching systems (ie: 3-way, 4way/multi-ple/relav. etc.)									
Install electrical panels									
Install lighting (indicate different voltage systems)	120	240	347	600	120	240	347	600	
Install raceways/conduit									IN-SCHOOL TRAINING MODULES LEVEL ONE - ELECTRICAL Module 1: Fundamentals Module 2: DC Circuits Module 3: Electromagnetism and Applications Module 4: Meters and Test Equipment - Part 1 Module 5: Prints and Drawings Module 6: AC Motor Control - Part 1 Module 7: Electrical Code and Wiring - Part 1 Module 8: Industrial Power Electronics - Part 1
Install service equipment									
Install over-current devices									
Install, test and maintain motor controls									
Perform power-factor correction									
Install lighting and circuits									
Install conductors (ie: NMD90, AC90, Teck 90, TW***, etc.)									
Install, connect and test three phase circuits									
Use meters									
Install proper wiring and equipment in hazardous locations									
Install fire alarm cabling/devices									
Install data/voice cabling									
Install 1Ø and 3Ø transformers									
Install rotating equipment (ie: motors and generators)									
Install cable tray and cabling									
Connect and test emergency power equipment									
Connect and test controls for heating, ventilating and air conditioning systems									
Install/maintain high-voltage A.C. systems									
Demonstrate knowledge of the CEC									
Install and test programmable logic controllers									
Install and test photovoltaic equipment									
Install equipment and system grounding									