MINE ELECTRICIAN – OCCUPATIONAL STANDARD TASK MATRIX



Tasks and Subtasks	Code
A-1 PERFORMS SAFETY RELATED FUNCTIONS	
1) Maintains safe work environment	A - 1.01
2) Uses personal protective equipment (PPE) and safety equipment	A - 1.02
3) Performs lock-out and tag-out procedures	A - 1.03
4) Identifies environmental conditions	A - 1.04
A-2 USES TOOLS AND EQUIPMENT	
1) Uses common and specialty tools and equipment	A - 2.01
2) Uses access equipment	A - 2.02
3) Uses rigging, hoisting and lifting equipment	A - 2.03
A-3 ORGANIZES WORK	
1) Interprets plans, drawings and specifications	A - 3.01
2) Identifies hazardous locations	A - 3.02
3) Organizes materials and supplies	A - 3.03
4) Plans project tasks and procedures	A - 3.04
5) Prepares worksite	A - 3.05
6) Finalizes required documentation	A - 3.06

Tasks and Subtasks	Code
A-4 FABRICATES AND INSTALLS SUPPORT COMPONENTS	
1) Fabricates support structures	A - 4.01
2) Installs brackets, hangers and fasteners	A - 4.02
A-5 COMMISSIONS AND DECOMMISSIONS ELECTRICAL SYSTEMS	
1) Commissions systems	A - 5.01
Performs start-up and shutdown procedures	A - 5.02
3) Decommission systems	A - 5.03
3) Decommission systems	A - 3.03
A-6 USES COMMUNICATION AND MENTORING TECHNIQUES	
1) Uses communication techniques	A - 6.01
2) Uses mentoring techniques	A - 6.02
B-7 INSTALLS AND MAINTAINS CONSUMER / SUPPLY SERVICE METERING EQUIPMENT	
1) Installs single-phase consumer/supply service metering equipment	B - 7.01
2) Maintains single-phase consumer/supply service metering equipment	B - 7.02
3) Installs three-phase consumer/supply service metering equipment	B - 7.03
4) Maintains three-phase consumer/supply service metering equipment	B - 7.04
B-8 INSTALLS AND MAINTAINS PROTECTION DEVICES	
	B - 8.01
Installs protection devices Asimple protection devices	
2) Maintains protection devices	B - 8.02
3) Installs ground fault, arc fault and surge protection devices	B - 8.03
4) Maintains ground fault, arc fault and surge protection devices	B - 8.04

Tasks and Subtasks	Code
5) Installs under and over voltage protection devices	B - 8.05
6) Maintains under and over protection devices	B - 8.06
B-9 INSTALLS AND MAINTAINS LOW VOLTAGE DISTRIBUTION SYSTEMS	
1) Installs low voltage distribution equipment	B - 9.01
2) Maintains low voltage distribution equipment	B - 9.02
B-10 INSTALLS AND MAINTAINS POWER CONDITIONING, UNINTERRUPTIBLE POWER SUPPLY (UPS) AND SURGE SUPPRESSION SYSTEMS	
1) Installs power conditioning, UPS and surge suppression systems	B - 10.01
2) Maintains power conditioning, UPS and surge suppression systems	B - 10.02
B-11 INSTALLS AND MAINTAINS BONDING, GROUNDING AND GROUND FAULT DETECTION SYSTEMS	
1) Installs bonding and grounding systems	B - 11.01
2) Maintains bonding and grounding systems	B - 11.02
3) Installs ground fault detection systems	B - 11.03
4) Maintains ground fault systems	B - 11.04
B-12 INSTALLS AND MAINTAINS POWER GENERATING SYSTEMS	
1) Installs alternating current (AC) generating systems	B - 12.01
2) Maintains AC generating systems	B - 12.02
3) Maintains DC generating systems	B - 12.03

Tasks and Subtasks	Code
B-14 INSTALLS AND MAINTAINS HIGH VOLTAGE SYSTEMS	
1) Installs high voltage systems	B - 14.01
2) Maintains high voltage systems	B - 14.03
B-15 INSTALLS AND MAINTAINS TRANSFORMERS	
Installs extra low voltage transformers	B - 15.01
Maintains extra low voltage transformers	B - 15.02
3) Installs low voltage single-phase transformers	B - 15.03
4) Maintains low voltage for single-phase transformers	B - 15.04
5) Installs low voltage three-phase transformers	B - 15.05
6) Maintains low voltage three-phase transformers	B - 15.06
7) Installs high voltage transformers	B - 15.07
8) Maintains high voltage transformers	B - 15.08
C-16 INSTALLS AND MAINTAINS CABLES, CONDUCTORS AND ENCLOSURES	
1) Installs conductors and cables	C - 16.01
2) Maintains conductors and cables	C - 16.02
3) Installs conduit, tubing and fittings	C - 16.03
4) Maintains conduit, tubing and fittings	C - 16.04
5) Installs boxes and enclosures	C - 16.05
6) Maintains boxes and enclosures	C - 16.06

Tasks and Subtasks	Code
C-17 INSTALLS AND MAINTAINS BRANCH CIRCUITRY AND DEVICES	
1) Installs luminaires	C - 17.01
2) Maintains luminaires	C - 17.02
3) Installs wiring devices	C - 17.03
4) Maintains wiring devices	C - 17.04
D - 22 INSTALLS AND MAINTAINS MOTOR STARTERS AND CONTROL DEVICES	
1) Installs motor starters	D - 22.01
2) Maintains motor starters	D - 22.02
3) Installs motor control devices	D - 22.03
4) Maintains motor control devices	D - 22.04
D-23 INSTALLS AND MAINTAINS DRIVES	
1) Installs alternating current (AC) drives	D - 23.01
2) Maintains alternating current (AC) drives	D - 23.02
3) Installs direct current (DC) drives	D - 23.03
4) Maintains direct current (DC) drives	D - 23.04
D-24 INSTALLS AND MAINTAINS NON-ROTATING EQUIPMENT AND ASSOCIATED CONTROLS	
1) Installs non-rotating equipment and associated controls	D - 24.01
2) Maintains non-rotating equipment and associated controls	D - 24.02

Tasks and Subtasks	Code
D-25 INSTALLS AND MAINTAINS MOTORS	
1) Installs single-phase motors	D - 25.01
2) Maintains single-phase motors	D - 25.02
3) Installs three-phase motors	D - 25.03
4) Maintains three-phase motors	D - 25.04
5) Installs direct current (DC) motors	D - 25.05
6) Maintains direct current (DC) motors	D - 25.06
E-26 INSTALLS AND MAINTAINS SIGNALLING SYSTEMS	
1) Installs fire alarm systems	E - 26.01
2) Maintains fire alarm systems	E - 26.02
E-27 INSTALLS AND MAINTAINS COMMUNICATION SYSTEMS	
1) Installs communication systems	E - 27.01
2) Maintains communication systems	E - 27.02
E-28 INSTALLS AND MAINTAINS INTEGRATED CONTROL SYSTEMS	
1) Installs building automation systems	E - 28.01
2) Maintains building automation system	E - 28.02

Tasks and Subtasks	Code
F-29 INSTALLS AND MAINTAINS INPUT/OUTPUT (I/O) DEVICES	
1) Installs discrete input/output (I/O) devices	F - 29.01
2) Maintains discrete input/output (I/O) devices	F - 29.02
Installs analog input/output (I/O) devices	F - 29.03
4) Maintains analog input/output (I/O) devices	F - 29.04
F-30 INSTALLS AND MAINTAINS AUTOMATED CONTROL SYSTEMS	
1) Installs automated control systems	F - 30.01
2) Maintains automated control systems	F - 30.02
F-31 INSTALLS AND MAINTAINS PNEUMATIC AND HYDRAULIC CONTROL SYSTEMS	
1) Installs pneumatic control systems	F - 31.01
2) Maintains pneumatic control systems	F - 31.02
3) Installs hydraulic control systems	F - 31.03
4) Maintains hydraulic control systems	F - 31.04

NOTE: Missing numbers in the sequence of Tasks and Subtasks are the result of an alignment with the Industrial Electrician Red Seal Occupational Standard.