



The Manufacturers Association

JOB QUALIFICATION STANDARD (JQS)

Occupation: Electrical Technician

Work Process: Other Training

Practical Hours: 300 hrs.

DOL Standard: Machine Operations: Apply a working knowledge of maintenance-related machine operations in a manufacturing environment.

Performance Objective: Demonstrate the ability to become familiar with machines in order to safely observe and test machine performance against proper operations.

Performance Indicator	Qualification Date/Initial
Demonstrate the ability to check equipment to verify equipment is ready for operation in accordance with a safety checklist.	
Demonstrate the ability to identify machine malfunctions through observations of control panels or other notifications.	
Demonstrate the ability to start and stop an operation in accordance with standard operating procedures.	
Demonstrate the ability to lockout equipment and test to ensure a zero energy state has been attained.	
Demonstrate the ability to use 5 Senses to observe machine operations and vibration to determine if operations is correct.	
Demonstrate the ability to recognize symptoms of malfunctions.	
Demonstrate the ability to verify for leaks, dirt and loose connections during equipment operations.	
Demonstrate the ability to read and interpret pressure gauges, flow meters, fluid levels, temperature gauges, voltages and current.	
Demonstrate the ability to use Human Machine Interface (HMI) equipment to monitor machine performance.	
Demonstrate the ability to compare machine readings with historical documentation to determine machine is performing within specifications.	
Demonstrate the ability to record machine operational data within maintenance logging systems.	
Demonstrate the ability to assist in the installation of new machines or equipment in the workplace.	
Demonstrate the ability to assist or maintain the parts inventory for machines and equipment in the workplace.	



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Performance Objective: Demonstrate the ability to adhere to safety concerns when working with high-voltage equipment.

Performance Indicator	Qualification Date/Initial
Demonstrate the ability to operate a high voltage switchgear.	
Demonstrate the ability to develop high voltage switching programs.	
Demonstrate the ability to control permit to work operations.	
Demonstrate the ability to perform switching to a switching program.	
Demonstrate the ability to coordinate and direct a switching program.	
Demonstrate the ability to work safely near live electrical apparatus.	
Demonstrate the ability to apply access procedures to work on or near electrical network infrastructure.	
Demonstrate the ability to perform high voltage field switching operation to a given schedule.	
Demonstrate the ability to perform power system substation switching operations to a given schedule.	
Demonstrate the ability to develop high voltage switching schedule.	
Demonstrate the ability to coordinate power system permit procedures.	
Demonstrate the ability to coordinate and direct power system switching schedules.	
Demonstrate the ability to solve problems in energy supply network equipment.	

Apprentice Signature:	Completed: MM/DD/YY
Mentor Signature:	Completed: MM/DD/YY
Supervisor Signature:	Completed: MM/DD/YY
Comments:	