



Eastern Idaho Electrical JATC

Motor Control Level 1:
8hrs Industry Related

Course Outline:

This course was developed to take the student from the beginning basics of motor control to the advanced topics through the use of three distinctive perspectives. The first goal is to familiarize the student with the ability to identify manually-operated input devices and to describe the operation of and applications for these control devices in manufacturing systems along with the operation of and applications for visual and audible signaling devices. Troubleshooting tips and procedures for typical failure modes are also discussed.

Part 1 also covers the identification of contractor and motor starting devices and the description of operation and applications for motor control devices and troubleshooting tips and the procedures for typical failure modes of the motor control devices.

The ability to differentiate and identify the difference between wiring diagrams, schematic diagrams, ladder diagrams, and logic functions is ladder drawing and the ability to describe the functions of each drawing is emphasized in this course.

First 4 hours covers:

- Function and characteristics of manual pilot devices
- Difference between normally open and normally closed switch contacts
- Double break contacts and their use
- Function and operation of pushbutton operator and contact block
- Function and operation of selector switch
- Difference between drum switches, foot switches and joysticks by describing the operation of each
- Types of visual indication devices
- Types of audible signaling devices
- Function of safety switches
- Identify different technologies and devices used for motor control
- Differences between magnetic contactors and magnetic motor starters
- How pilot devices are used to control magnetic contactors or motor starters
- How contactors are used in control circuits
- Operation of contactors in a circuit
- 2 Hrs lab time

Motor Controls Part 1 cont'd

8450 South 5th Avenue, Pocatello, ID 83204

Phone: (208) 232-4300 ▶ ◀ Fax: (208) 232-7883 ▶ ◀ Email: jatc449@gmail.com

Web: www.eijatc.org

Second 4 hours covers:

A review of the subjects covered in the first four hours, lab work implementing the functions of manual switches and motor starters.

- Basic function and operation of timers
- Identify different types of timers, including how they are similar and how they are different.
- Identify and describe applications which require timers for motor control circuits.
- Identify NEMA and IEC symbols for timers.
- 2 Hrs lab time

Material / Visual Aids:

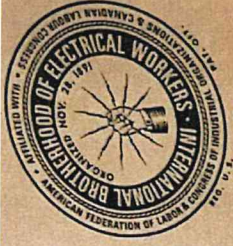
Fundamentals of Motor Control Textbook and Workbook

Instructor: Jacob Chouinard

If you have any questions, or if you require more information, please feel free to contact me at (208)232-4300.

Sincerely,


James Smith
Training Director



Electrical Training ALLIANCE

for the
INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS,
and the
NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION

on the Recommendation of the participating National Training Institute Faculty, do hereby confer onto

JAKE CHOUNARD

*this Diploma of Graduation from The National Training Institute
with all the Rights, Privileges and Recognition herewith awarded.
In witness whereof this diploma is granted and the Seal of the Electrical Training ALLIANCE
and the signatures of the Institute Directors
and the Presidents of the IBEW and NECA are hereunto affixed.*

*Given at the University of Michigan, Ann Arbor,
this fourth day of August in the year of our Lord two thousand and sixteen.*

Electrical Training ALLIANCE Executive Director

Charles E. Beck

Director of Professional
Education

President IBEW

President NECA



Details - License Number: 004295

Lic Info

Fees \$185.00

Registration #: 004295
Issue: 11/4/2009
Expire: 11/30/2021
Type: ELECTRICAL
Sub-Type: JOURNEYMAN
Status: ACTIVE
Company: JACOB B CHOUINARD
Phone: (208) 830-6967
Cell: 208
Pager:
Fax:
Owner Name:

Eastern Idaho Electrical JATC Attendance Roster

Continuing Education for Electrical Licenses

Course Title: Motor Control-Level I

Date of Class: 1/5/2021

Instructor: James Smith

Contact Person: James Smith

Location: JATC, Pocatello, Idaho

Name	Email Address	License #	Signature

***NOTE: For those with a Utah license; The State of Utah charges \$1.00 per credit hour submitted.**

I certify that the persons listed above did, in fact, attend the entire course of training.

Instructor Signature: _____ Date: _____

Certificate of Completion

Awarded to:

John Doe

Idaho License:

Montana:

Oregon:

Wyoming:

Other:

Course Information:

Course Name	Motor Control-Level I	Course #
Course Type	Industry Related	OR
Location	Pocatello JATC Training Center	WY
Completed On		UT
Instructor Name	Chouinard, Jake	MT

Sponsored By: Hours Completed 8



Training Director: James Smith

FUNDAMENTALS OF MOTOR CONTROL

IN PARTNERSHIP WITH THE NJATC

