



Eastern Idaho Electrical JATC

Motor Control Level 2:
8hrs Industry Related

Course Outline:

This course was developed to take the move the student forward from the beginning basics of motor control to the advanced topics of motor control. The students begin by reviewing, identifying and differentiating between wiring diagrams, schematic diagrams, ladder diagrams, and the logic function in the ladder drawings. From there the student moves on to learning to identify solid state devices and learns to describe the operation of and the application for these distinct control devices in the manufacturing system along with troubleshooting tips and the procedures for the typical failure modes that can be presented.

The final section delves into programmable logic control (PLC) concepts. The student at the end of this course should have the ability to identify and describe stand-alone controllers and modular PLCs, the integration of the PLC into the motor control system, understand the basic concepts and components of a PLC.

First 4 hours covers:

A review of the basic function and operation of timers, identifying the different types of timers, including how they are similar and how they are different, the applications which require timers for motor control circuits, identifying NEMA and IEC symbols for timers.

- Theory, operation and function of control relays
- Identify the NEMA and IEC symbols used for relays
- Differences in function and operation of various types of control relays
- Construction and operation of analog transducers
- Identify different types of transducers
- Describe the characteristics of transducers
- Installation techniques for analog transducers
- Troubleshooting technics for analog transducers
- 2 Hrs Lab time

Second 4 hours covers:

- The construction and operation of analog transducers
- Different types of transducers
- Characteristics' of transducers
- Installation techniques for analog transducers
- Troubleshooting technics for analog transducers

8450 South 5th Avenue, Pocatello, ID 83204

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

Web: www.eijatc.org

- 2 Hrs Lab Time

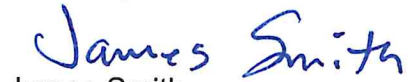
Material / Visual Aids

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 CHOUMARD

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.

Charles E. Beck
Executive Director
Electrical Training ALLIANCE

Tommie Stephenson
President, IBEW



David A. Smith
President, NECA

Charles E. Beck
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:

Certificate of Completion

Awarded to:

John Doe

Idaho License:

Montana:

Oregon:

Wyoming:

Other:

Course Information:

Course Name	Motor Control-Level II	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

