



Open Educational Resources

Terra CREATE Project Team

Presented by:

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What is OER?

1. Open Educational Resources
2. Free material that can be used for instruction
3. Some Faculty replace textbooks with OER
4. Some Faculty use OER in addition to the textbook
5. Most OER can be modified and reused
6. All materials funded through federal agencies (DOL, NSF, DOE) is considered OER and can be used based on the licensing



What are Learning Objects

1. Passive Learning versus Active Learning
2. Active Learning Objects are: Video, Voice over PPT, & Simulations
3. Targeted Learning Objects are PDFs to focus on a topic area, or even a video on how to do something
4. Hands-on students learn best with videos or a simulations, but also learn with a targeted learning object
5. Study guides and quizzes/tests are learning object



URLs Used in OER Workshop:

Engneertech.org: Eastern Iowa CC Videos on Technical Topics

<http://engineertech.org/>

Wisconsin Online Learning Object:

<https://www.wisc-online.com/>

The DOL document repository:

www.skillscommons.org

The NSF ATE document repository:

www.atecentral.net

Jim Pytel, Big Bad Tech, Video Lectures with Graphics

<https://www.youtube.com/user/bigbadtech>

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Attribution: Giving Appropriate Credit

This document was originally created by Northwest State Community College through DOL funding with TAACCCT Round 4. The author and Creative Commons licensing can be found at the following link: <http://www.skillscommons.org/handle/taaccct/17746>. The original material was modified to meet the needs of Terra Community College.

DOL DISCLAIMER:

This product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.



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All Creative Common Licenses:

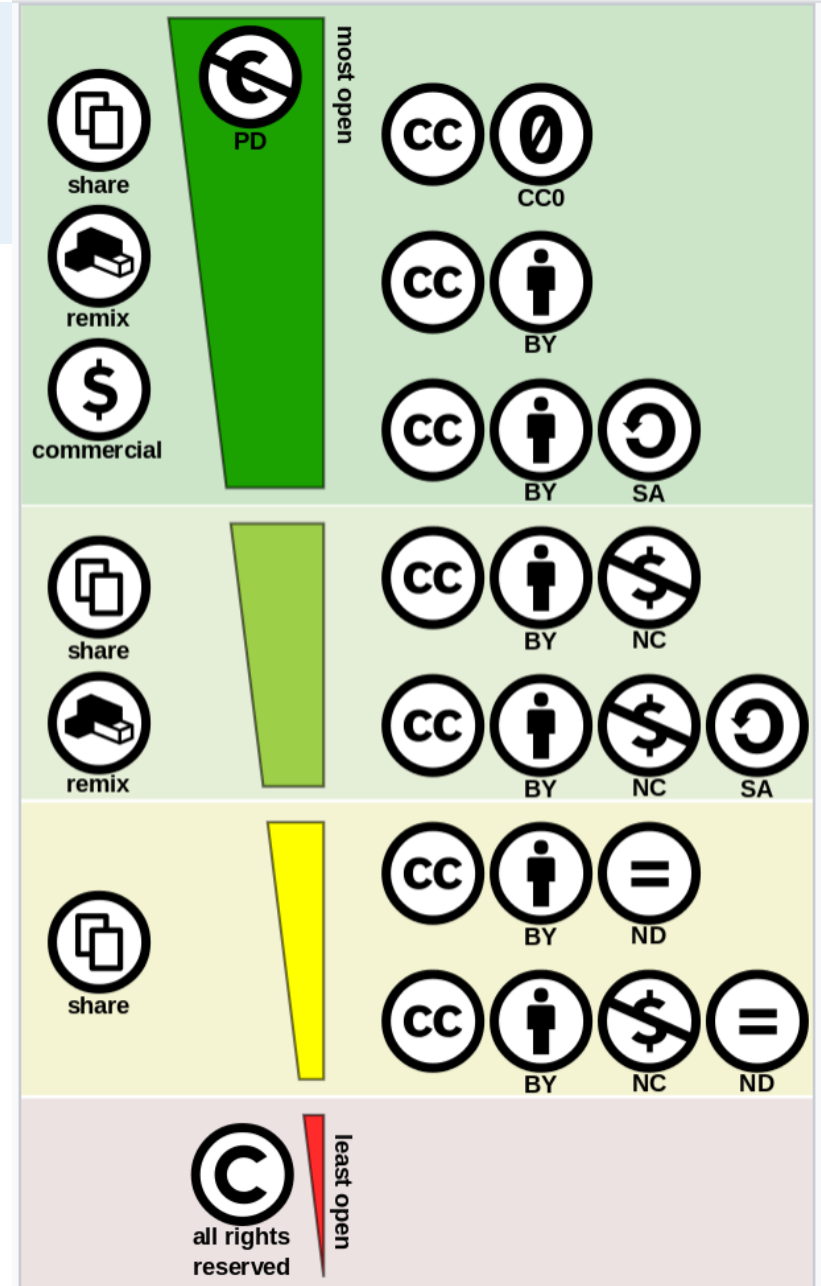
Remix: means to add, delete, modify the original OER for reuse:

A **Commercial** license does allow a user to remix and modify, but they can also resell it.

Non-Commercial license does not allow a user to resell the OER, but they can still use it, modify it, and share it.

This link explains all the licenses:

<https://creativecommons.org/about/cclicenses/>



Creative commons license spectrum between public domain (top) and all rights reserved (bottom). Left side indicates the use-cases allowed, right side





WiscOnline Licensing

About

- The WiscOnline Story
- Our Mission
- The Team
- Learning Objects
- API

Help

- Technical Support
- FAQ
- Accessibility Statement

Contact/Follow

- Contact
- Translate Our Content
- Follow ▼

[Terms of Use](#)

[Badges](#)

[Privacy Policy](#)



Wisc-Online is a creation of Wisconsin's Technical Colleges and maintained by Fox Valley Technical College.

Wisc-Online by Fox Valley Technical College is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License.





Referencing Original Work in OER

Video: Piping and Instrumentation Diagrams

http://engineertech.org/courses/process-control/?submit=view&vimeography_gallery=46&vimeography_video=135569941

This video was created by Eastern Iowa Community College in TAACCCT Round 2. The link to the licensing information can be found at:

<http://www.skillscommons.org/handle/taaccct/10039>

Simulation: Proportional Control Amplifier

<https://www.wisc-online.com/learn/technical/industrial-automation/iau12008/proportional-control-amplifier>

This learning object is linked from Wisc-Online (Wisconsin-Online), a nonprofit educational website. Fox Valley Technical College maintains fiscal and operational responsibility for Wisc-Online with guidance from an advisory council that includes representation from all of the colleges in the Wisconsin Technical College System. For a link to the page with the Creative Commons licensing information, copy the following link into an internet browser:

<https://www.wisc-online.com/our-story>



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<https://www.youtube.com/user/bigbadtech>

ENGINEERTECH.ORG:

ENGINEERTECH.ORG is a website created to house videos created by Eastern Iowa Community College with funds from TAACCCT Round 2 grant. This is the user interface to the videos that are housed at VIMEO.COM (instead of YouTube). A college LMS can link to each video. The MP4 videos can also be downloaded from Skillscommons. The link to the CC license can also be found at Skillscommons.

Not secure | engineertech.org

ENGINEERING TECHNOLOGY

SIMULATIONS FOR LEARNING

Engineering Technology

Open Courseware & Educational Resources for Instructors & Students

Choose a Topic VIEW

- Choose a Topic
- AC Circuit Analysis
- Basic Math Topics
- DC Circuit Analysis
- Digital Circuits & Systems
- Electrical Motor Control & Power
- Fluid Power Control
- Fluid Power Design/Application
- Fluid Power Fundamentals
- Industrial Print Reading
- Industrial Robotics
- Lean Manufacturing
- Microcontrollers
- Motion Control
- Motors & Drives
- Physics Fundamentals

CC

FREE TO USE

Each simulation can be embedded into your online courses or used in the classroom. Use, Modify, or Share for free under the Creative Commons license.

ENGINEER FOCUSED

Learning simulations covering Automation & Electrical & Motor Control, Process Control or Renewable Energy.

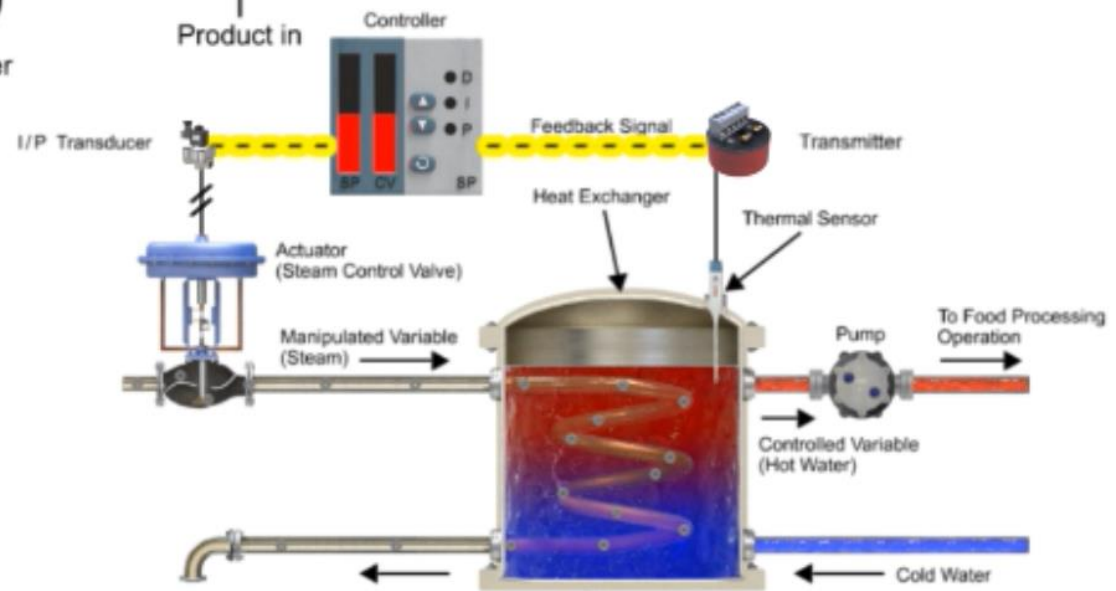
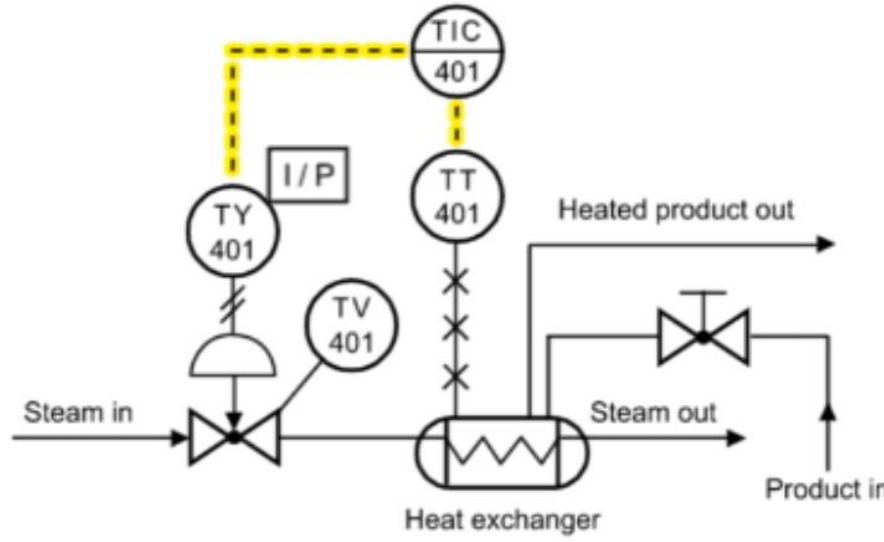
Featured Simulati

Northwest State Community College

NSI



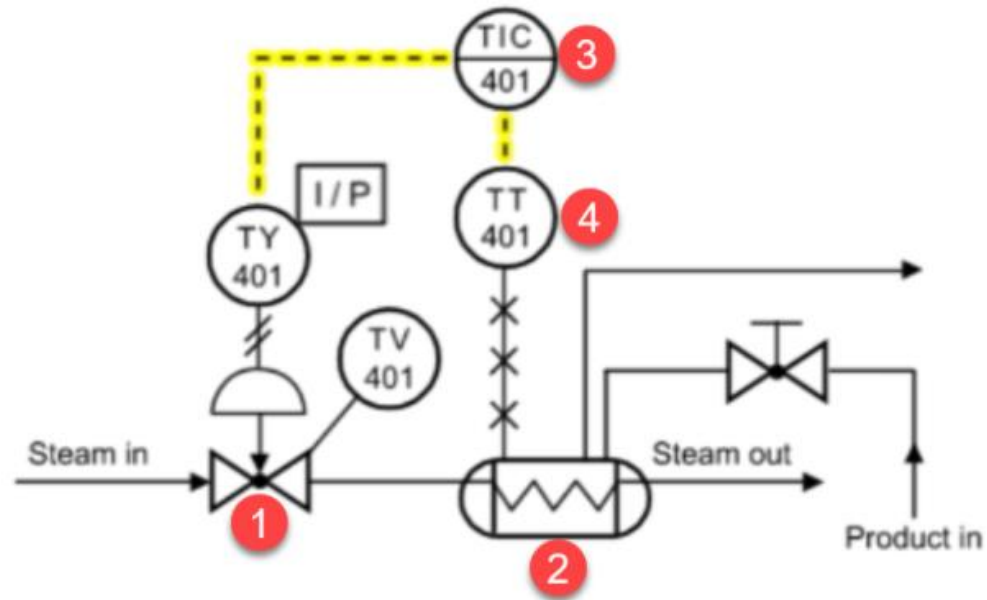
Piping and Instrumentation Diagrams



Download Embeddable Simulation with Interactive Quiz Questions:
bit.ly/1lspWI8



Assess the students on information within Learning Object



2. In this Piping & Instrument Diagram, which device is the heat exchanger?

- a. 1
- b. 2
- c. 3
- d. 4



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Jim Pytel, Big Bad Tech, Video Lectures with Graphics

<https://www.youtube.com/user/bigbadtech>



WISC-ONLINE:

WISC-ONLINE is an online repository for active learning objects that is accessible by going to their website: <https://www.wisc-online.com/>, and searching for a topic, or look into categories. These links can be posted in an LMS system for students to view on a computer or on their portable devices.

The screenshot displays the WISC-ONLINE website interface. On the left is a dark sidebar menu with categories: Computer Science, Manufacturing & Engineering, Electronics, Industrial Automation, Machine Tool, Welding, View All, Math, Science, Social Science, Wisc-Online Categories, WTCS Categories, and Basic Computer Skills Course. The main content area features a search filter bar with 'By Rating' selected, and a pagination indicator showing 'Displaying 0 - 25 of 306 results.' and 'Page 1 of 13'. Below the filter are eight learning object cards, each with a title, author, and engagement metrics (likes and views).

Title	Author	Likes	Views
Troubleshooting a Three Phase Motor that is Overheating	Excelsior College	419	721
Using Blueprints to Troubleshoot a Defective Compressor Motor	Excelsior College	243	234
Using Blueprints to Troubleshoot a Defective Water Pump	Excelsior College	222	536
Work and Power (Screenecast)	James Bourassa, John ...	204	638
PID Control (Screenecast)	Terry Bartelt	184	1,439
Identifying Lever Classes	James Bourassa	227	18.2k
Pneumatic Schematic Symbol Flashcards	Terry Bartelt	208	11.8k
P&ID Tag Numbers	Terry Bartelt	216	26.2k



WISC-ONLINE:



Operational | Business | Tools



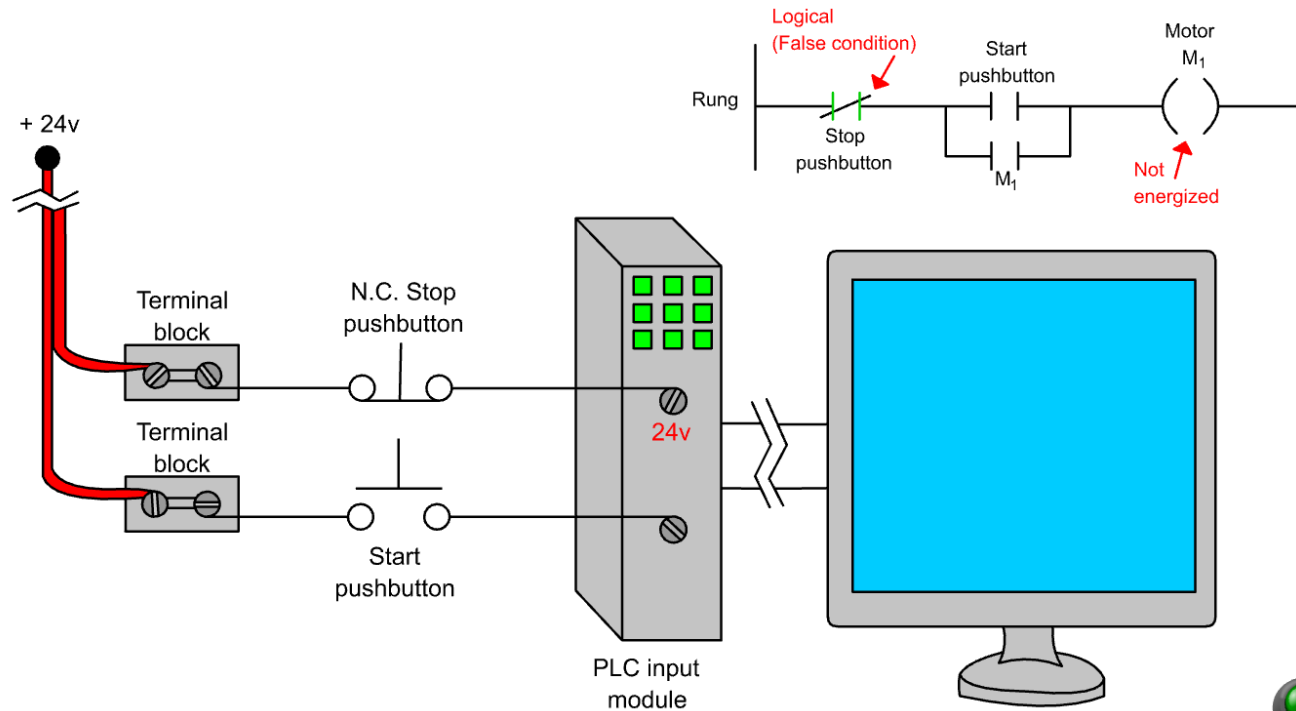
WISC-ONLINE:

Stop-Button Wiring to a PLC

Page 3 of 18

Using a Normally Closed Switch and an Examine-Off Contact

There is a common mistake made by PLC programming beginners. They incorrectly wire a normally closed pushbutton to perform the stop function, and then program an Examine-Off contact on the PLC ladder diagram that corresponds to the pushbutton.



WISC-ONLINE:



Calculating Horsepower, RPM & Torque

Page 15 of 17

Narration

Horsepower Calculation Problems

Calculate
Horsepower

Torque

2352.9 ft-oz

RPM

198

Horsepower

0

Round to the tenth
decimal place.

Reference
Window

Check
Answer



< BACK

NEXT >





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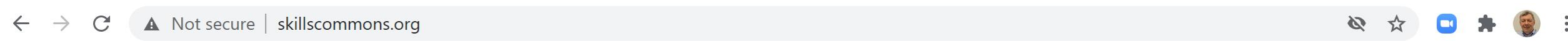
Jim Pytel, Big Bad Tech, Video Lectures with Graphics

<https://www.youtube.com/user/bigbadtech>



SKILLSCOMMONS.ORG:

SKILLSCOMMONS.ORG is a website created to house the instructional content that was developed with DOL dollars, especially materials developed in the TAACCCT grant project. There are thousands of learning objects that are stored there. A person can spend hours searching within their site. A search can be done on a person, college or technical content topic. All of the licensing information is stored with the object.



- ABOUT +
- BROWSE +
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Workforce Development Digital Library

FREE and OPEN Workforce Training Materials for 21st Century Employment

[Browse by industry, credentials & material type](#) | [Advanced search](#)

Eastern Iowa Community College



EEM162

electrical safety

Eastern Iowa Community College

EEM221

These MP4 videos can be uploaded to an LMS system, or could be put on YouTube.

Some colleges are loading MP4s into the LMS, stored on their own servers so they can monitor when a student opens the learning object, and to assure that only their registered students can get to it.

These MP4s can also be edited in Camtasia to add or move content.

All the videos Eastern Iowa Community College has at ENGINEERTECH.ORG, housed by VIMEO, is stored as MP4s in Skillscommons.

Material Type

- Syllabus (2637)
- Recruitment and Outreach (1551)
- Hybrid/Blended Course (1343)
- Presentation (1314)
- Grant Management Materials (1246)
- Collection (1214)
- Student Support Materials (1125)
- Assignment (1121)
- Reference Material (1096)
- Instructor and/or Advisor/Case Manager Support Materials (846)
- ... View More

Credential Type

- Certificate (6496)
- Associate Degree (5885)
- Stacked/Latticed Credential Model (2900)
- None (2284)
- Credential (1563)
- Other (1051)
- Diploma (982)
- Bachelors Degree (325)
- III (5)

Timer Functions On/Off Delays in PLCs preview

Simulation

Eastern Iowa Community College

This narrated animation illustrates timer functions on/off delays in PLCs.

NPN Transistors preview

Simulation

Eastern Iowa Community College

This narrated animation illustrates the operation and functions of NPN transistors.

Pressure Relief Valves preview

Simulation

Eastern Iowa Community College

This narrated animation illustrates the principles and operations of pressure relief valves.

Hydrostatic Pressure in Process Control preview

Simulation

Eastern Iowa Community College

This narrated animation illustrates hydrostatic pressure issues in process control.

The Law of Gravity - Fundamental Physics preview

Simulation

Eastern Iowa Community College

This narrated animation illustrates the Law of Gravity.

[Link to video in EngineerTech.org](#)

Piping and Instrumentation

Hunter, Tim

This narrated animation illustrates piping and instrumentation associated with process control.

[This narrated animation describes the principles associated with Piping and Instrumentation associated with Process Control.](#) (8 MB)

[This guide describes how to reach the 508 accessibility transcript and how to include the power concept into one's courseware.](#) (1 MB)

Did you download this item? We value your feedback, and it'll only take a minute

Additional Public Access To Materials:
<http://www.engineertech.org/>

Website for links to all of the Eastern Iowa CC videos

Raw MP4 that can be edited

Copyright / Licensing

Creative Commons License

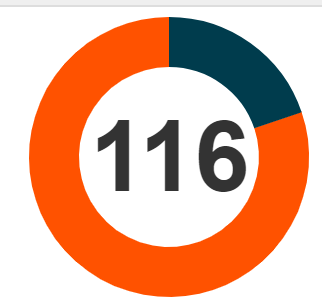
Primary License:



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Hide Statistical Information

Total hits all time



File downloads



The user can search by the Author of the materials in Skillscommons, or the organization, or the topic area.

[Advanced search](#)

Results **1-10** of **46**

sort by: **relevance** | [newest f](#)

Has preview



Industry

- [Manufacturing -- Miscellaneous Manufacturing \(339\) \(14\)](#)
- [Developmental Education \(6\)](#)
- [Manufacturing -- Plastics and Rubber Products Manufacturing \(326\) \(6\)](#)
- [Information Technology -- Computer Operating Systems \(Programming\), Digital Forensics, Cyber Security, Network Security, IT Security \(51\) \(3\)](#)
- [Manufacturing -- Miscellaneous Manufacturing -- Other Miscellaneous Manufacturing \(3399\) \(3\)](#)
- [Administrative and Support and Waste Management and Remediation Services -- Waste Management and Remediation Services](#)

Servo and Robotics

Hybrid/Blended Course

Northeast State Community College

Servo/Robotics Systems is an introductory Hybrid course in industrial robotics with emphasis on the Fanuc R-J30iA series robot controller. The course is intended for students who wish to gain insight into robot operations in order to program, test, run, and trouble-shoot FANUC material handling appl . . .

Industrial Electricity II

Hybrid/Blended Course

Northwest State Community College

The purpose of this course is to develop the student's knowledge and skills in the area of electrical safety, DC/AC machines and basic control circuits. The electrical safety module will focus on lockout/tagout, arc-flash standards, PPE, electrical panels and overcurrent protection. The DC/AC machin . . .

Industrial Wiring

Hybrid/Blended Course

Northwest State Community College

industrial safety



Browse by [industry](#), [credentials](#) & [material type](#) | [Advanced search](#)



Industry

- Manufacturing -- Miscellaneous Manufacturing (339) (472)
- Developmental Education (460)
- Information Technology -- Computer Operating Systems (Programming), Digital Forensics, Cyber Security, Network Security, IT Security (51) (328)
- Health Care and Social Assistance (62) (241)
- Professional, Scientific, and Technical Services (54) (207)
- Professional, Scientific, and Technical Services -- Professional, Scientific, and Technical Services (541) (202)
- Manufacturing -- Fabricated Metal Product Manufacturing (332) (138)
- Mining, Quarrying, and Oil and Gas Extraction - - Oil and Gas Extraction -- Oil and Gas Extraction (2111) (137)
- Manufacturing -- Miscellaneous Manufacturing -- Other Miscellaneous Manufacturing (3399) (132)
- Construction (23) (125)
- ... View More

In this example the user can search for any topic on Industrial Safety.

Machine Shop Safety Challenge Test

Student Support Materials

Front Range Community College

Challenge test for machine shop safety

Ohio TechNet SAFE 145 Safety in General Industry

Other

Lorain County Community College

These are course materials for OSHA Safety in General Industry 30 Hour

EIC 103 Safety & Industry Certificate

Hybrid/Blended Course

Trinidad State Junior College

This course cartridge contains material to teach EIC 103 Safety & Industry Certificate including materials for a comprehensive review of electrical industry safety standards. When applicable, the student will earn a permit and/or certification in the following areas: CDL Licensing, First Aid/CPR/AED . . .

Ohio TechNet LCCC_Safety

Recruitment and Outreach

Lorain County Community College

These are outreach materials for the LCCC Safety program and courses, and one LCCC Curriculum Guide for the 2 year Associate Degree.

Industrial Safety Syllabus

Syllabus

Programmable Controls I

Wylie, Tom

1

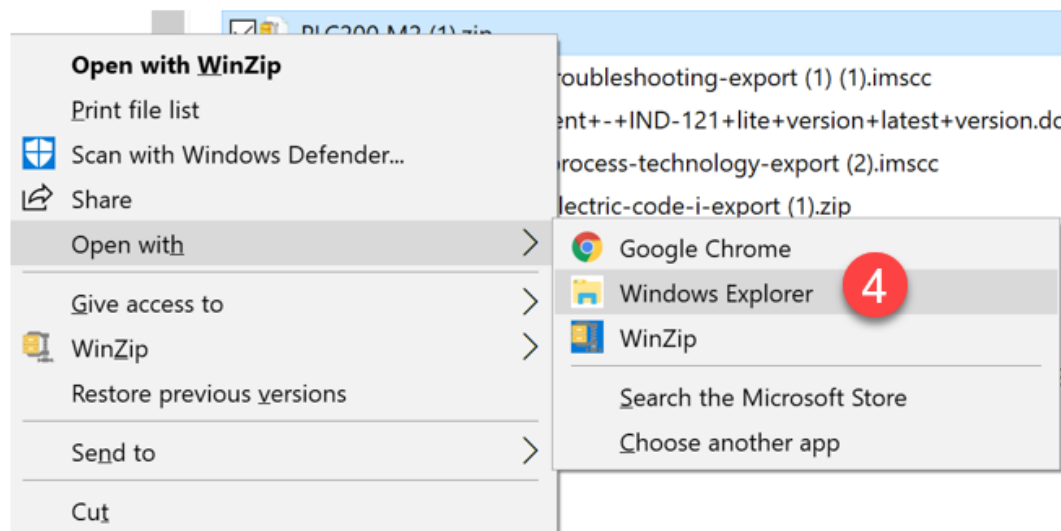
The course is a study of the installation, programming and troubleshooting of programmable controlled systems currently used in an industrial environment. The focus will be on Installation, Programming, Engineering and Maintenance tasks performed with PLC systems. The primary PLC used for this class will be the Allen Bradley SLC-500 and CompactLogix, using RSLogix 500, RSLogix5000 and RSLinx software. The topics presented will be learned through Online instructional material, and hands on labs. After completing this course the student will: 1. Explain the function of a PLC in an industrial environment 2. Set up communications between a PLC and a programming panel 3. Configure and program an Allen Bradley SLC-500 system. 4. Install and maintain basic control system based on the SLC-500 5. Troubleshoot an Allen Bradley SLC-500 system. 6. Program an Allen Bradley CompactLogix with RSLogix5000 7. Maintain and troubleshoot an Allen Bradley CompactLogix system 8. Interpret AB PLC-5 hardware addressing & block transfer instructions

ZIPPED Files in Skillcommons.org

Many objects (files) are zipped within Skills Commons, thus they can be retrieved easily and added to a course within your unique LMS. NSCC objects are all in their native format: Word, PPT, MP4.

- Module One (17 MB)
- Module Two (7 MB) 2
- Module Three (7 MB)
- Module Four (4 MB)
- Module Five (3 MB)
- Module Six (10 MB)
- Module Seven (583 KB)

- Name
- 3 PLC200 M2 (1).zip
- open-pro240-process-troubleshooting-export (1) (1).imsc
- 17_1212_+QM+Alignment+-+IND-121+lite+version+latest+version.docm
- open-pro100-intro-to-process-technology-export (2).imsc



- Name
- 5 21_PLC200 Module 2 Learning Sequence Sheet 010617.docx
- 22a_PLC200 Module 2 Information on RSLinx and RSLogix500.pptx
- 22b_PLC200 Module 2 Intro to Virtual Machines.pptx
- 23_PLC200 Module 2 KAA Study Guide.docx
- 24_PLC200 Module 2 Practice Quiz.docx
- 25a_PLC200_Lab03_SLC-500 Getting Started with RSLogix500 Lab M2.docx
- 25b_PLC200_Lab04_SLC-500 Relay Instructions Lab M2.doc




Common Cartridge Files found on Skills Commons

PRO240 Industrial Troubleshooting

This course Provides instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problems. Topics include application of data collection and analysis, cause-effect relationships, and reasoning.

 Course description and competencies (131 KB)

 Course material imsc file that can be imported to an LMS using a standard import or changed to a zipped file command or opened/viewed with a zipped file application. (2 MB)


Did you download this item? We value your feedback, and it'll only take a minute

Date:

2014-07-01

Primary Material Type:

skillscommons.org/bitstream/handle/taaccct/2712/open-pro240-proce...

open-pro240-pr....imsc 

Some authors do not want to license all of their objects, so they export their online course with all of the object as a “.imsc” type of file. This way they can license only the online course. The .imsc file can be imported into the LMS.

A Canvas exported courses (as a .imsc file can import into Canvas at another institution, but some objects are removed if imported into Blackboard or Sakai.



Some of my Favorites on Skills Commons Site

[MTE247 Strength of Materials Course Pikes Peak CC](#)

<http://www.skillscommons.org/handle/taaccct/3914>

[EEM151 Motors and Controls I, Midlands CC, SC](#)

<http://www.skillscommons.org/handle/taaccct/741>

[OPT1100 Tooling & Machining Metrology, Stark State College, OH](#)

<http://www.skillscommons.org/handle/taaccct/16107>

[Mechanical Components, Purdue University Northwest, IN](#)

<http://www.skillscommons.org/handle/taaccct/10929>

[Introduction to Electrical Circuit Simulation, Colorado Mountain College, CO](#)

<http://www.skillscommons.org/handle/taaccct/18698>



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ATECENTRAL.NET:



ATECentral.net is a website that houses all the information about NSF Projects and NSF Centers throughout the nation. It also holds all of the resources that were developed with NSF funds.

What is ATE?

With an emphasis on two-year colleges, the National Science Foundation's ATE (Advanced Technological Education) program focuses on the education of technicians for the high-technology fields that drive our nation's economy.

[Learn More About ATE](#)

[ATE Central Tools & Services](#)

ATE Centers and Projects

All Active Inactive New All Centers Projects

All Mfg Ag/Env Bio/Chem Eng Gen Info Nano

You are logged in.

Welcome, twylie

- [Your Microsite](#) Add
- [Preferences](#)
- [Log Out](#) Edit

ATE Events

- 6** *Photonics West*
Mar 6
- 7** *ABRF Annual Meeting*
Mar 7
- 10** *Food & Agriculture*
Mar 10
- 10** *Seminar w/ Xinwei Wang*

What Can ATE Central Do for Me?

Folder

Main Folder Edit

There are no resources in this folder.

Toolbox

Recent Searches

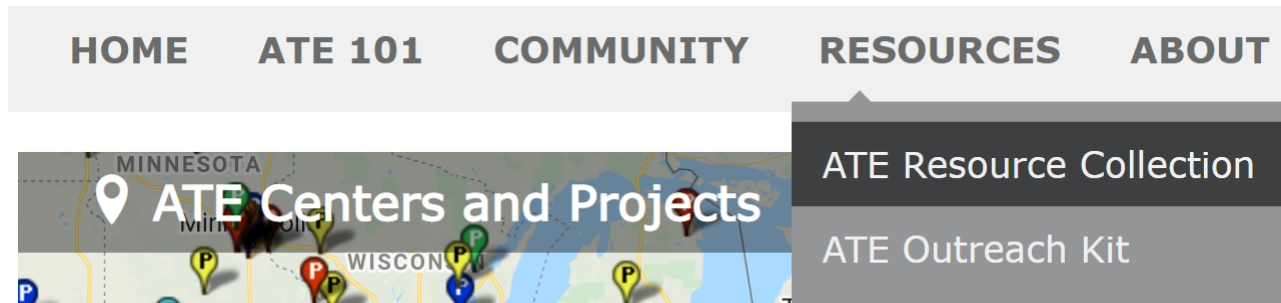


ATECENTRAL.NET:

If the user clicks on the “All” option on the map (shown by the red arrow), it will display all of the active NSF ATE Projects and Centers within the country. The user can click on any of the pins, and it will show the name of the award, as shown below.

ATECENTRAL.NET:

Click on Resources, then choose ATE Resource Collection. The user can choose any of the categories at the bottom of the page.



Browse Resources

The ATE Central resource collection and archive contain curriculum, professional development materials, videos and other valuable resources created and collected by the ATE community. Browse the resource collection using the categories listed below, or search for ATE resources via the box at upper right.

7 classifications found.

- **Browse by:**
- **Education Level**
- **Format**
- **GEM Subject**
- **Resource Type**

[Advanced Manufacturing Technologies](#) 623

[Agricultural and Environmental Technologies](#) 858

[Bio and Chemical Technologies](#) 575

[Engineering Technologies](#) 1,473

[General Advanced Technological Education](#) 995

[Information and Security Technologies](#) 816

[Micro and Nanotechnologies](#) 388

ATECENTRAL.NET:



<http://tijj.org/issues/issues/winter09/Winter09/cheng.pdf>



Industrial Automation Tutorials

Presented on behalf of Galil, these videos, presented by "industry leader" Jacob Tal, provide compensation, piezo-ceramic actuators, microstepping, and more. These two-minute videos address common motion and I/O problems such as connecting to a Galil controller, PID temperature control, and more.

<http://www.galil.com/learn/online-videos>



Mechatronics Certification

This four-page document demonstrates how the College of Lake County (CLC) Mechatronics Systems Certification Program, Level 1 Mechatronics Systems Assistant and Level 2 Mechatronics Systems Assistant, in partnership with the Florida Advanced Technological Education Center (FLATE), includes a short introduction to the program.



Hydraulics & Pneumatics

This site, created by Penton, is the leading international technical magazine of fluid power. It covers fluid power technology, through both technology articles and application stories. Emphasis is on fluid-powered machines and the plant engineer who maintains them. Also included in the site are news, product information, and more.

<https://www.hydraulicspneumatics.com>



PRDE 2420 - Capstone Project Syllabus

This is a syllabus for a four credit course offered at Macomb Community College that integrates problem solving, time and team management, and process changes. Upon completion of this course, students will be able to (1) present ideas in a team environment and (2) utilize research to solve a problem.



Emergency Preparedness Management: Occupational Profile

This document, created by Eastern Iowa Community Colleges, serves as an overview of job management. What does emergency preparedness management involve? As the document explains, it is the application and coordination of a process that brings resources together to prepare, respond to, and recover from an emergency.



URLs Used in OER Workshop:

Engneertech.org: Eastern Iowa CC Videos on Technical Topics

<http://engineertech.org/>

Wisconsin Online Learning Object:

<https://www.wisc-online.com/>

The DOL document repository:

www.skillscommons.org

The NSF ATE document repository:

www.atecentral.net

Jim Pytel, Big Bad Tech, Video Lectures with Graphics

<https://www.youtube.com/user/bigbadtech>



Jim Pytel YouTube Channel:

youtube.com/watch?v=XfcM4WhJmJc



jim pytel



Motor Nameplates (Full Lecture)

3,008 views • May 14, 2021

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Jim Pytel
70K subscribers

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In this lesson we'll learn to interpret important manufacturer, electrical, and mechanical information






Jim Pytel YouTube Channel:



jim pytel

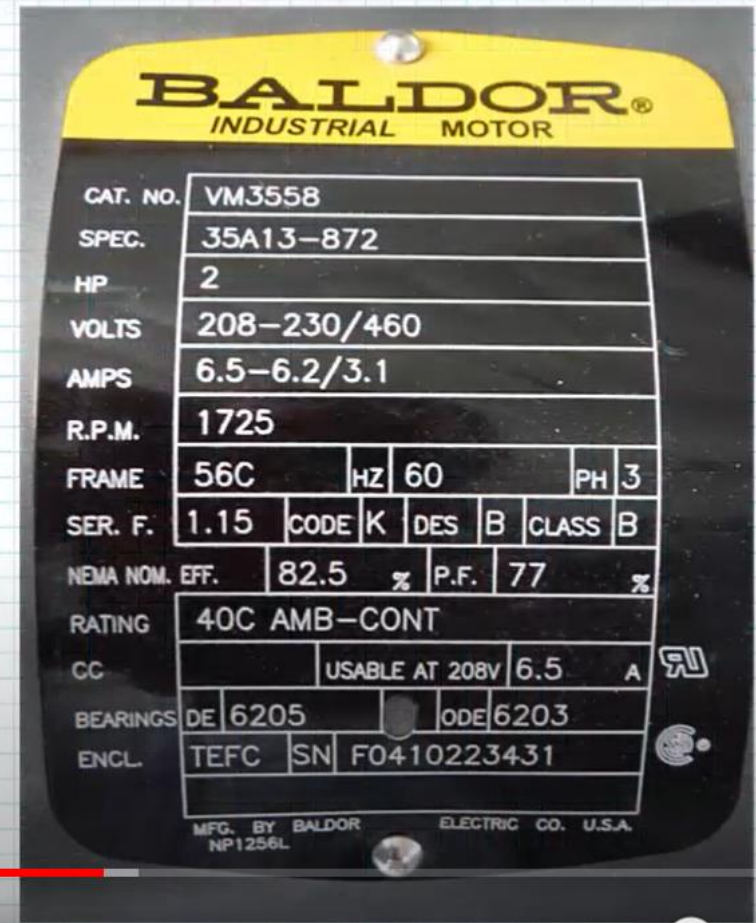
Manufacturer
Model
Serial Number

Electrical Characteristics

- Phase
- Frequency
-  Voltage
- Current
- Power Factor
- Efficiency
- Inrush Code
- Connection Diagrams

Mechanical Characteristics:

- Rated Power
- Rated Speed
- Design Code
- Frame
- Enclosure
- Insulation Class
- Temperature Data
- Duty Cycle





How-To Videos for Session 1:

YouTube Video: T. Wylie, Video on Finding OER Videos and Simulations 042221

<https://youtu.be/uo934NaFoxs>

YouTube Video: T. Wylie, Video Searching for OER in Skillscommons 042221

<https://youtu.be/ep4Erjg46bs>



The End of the Presentation

Please email the presenter with
Any questions you may have, as
well as any feedback on the session
(twylie@northweststate.edu)