

# Thank you for choosing IVC! We are so happy to join you in your educational journey.

#### **Basic Course Information**

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Semester:	Fall 2023	Instructor Name:	Jimenez, Javier
Course Title & #:	ELTT 104-Electrical Trades IV	Email:	Javier.Jimenez@Imperial.edu
CRN #:	11041	Webpage (optional):	
Classroom:	ECTR (IID El Centro Executive Class)	Office #:	
Class Dates:	Aug 15, 2023 to Dec 5, 2023	Office Hours:	
Class Days:	Tuesdays	Office Phone #:	
Class Times:	04:30 PM – 08:45 PM	Emergency Contact:	Javier.Jimenez@Imperial.edu
Units:	4.00	Class Format/Modality:	Face-to-Face (On Ground)

## **Course Description**

Instruction in maintenance line distribution and underground line maintenance. (Nontransferable, AA/AS degree only)

# Course Prerequisite(s) and/or Corequisite(s)

ELTT 103 - Electrical Trades III

#### **Student Learning Outcomes**

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

- 1. Identify and explain the use of line construction equipment; line trucks, digger derricks, bucket trucks. (ILO2, ILO3)
- 2. Describe overhead distribution systems and equipment; cutouts, switches, reclosers, sectionalizers, capacitors and voltage regulators. (ILO1, ILO2, ILO3)

#### **Course Objectives**

MEASURABLE COURSE OBJECTIVES AND MINIMUM STANDARDS FOR GRADE OF "C": Upon satisfactory completion of the course, students will be able to (these objectives are subject to change):

1. Practice standard safety procedures appropriate to the power utility industry.

Updated 6/2023



- 2. Recognize and deal appropriately with hazardous materials in the power utility industry.
- 3. Operate and maintain a bucket truck, digger derrick, backhoe, and trencher.
- 4. Demonstrate the method(s) of connecting pole top transformers (single-phase and three phase)
- 5. Analyze and explain the procedures for troubleshooting and replacement of faulty pole top transformer components; i.e., cutouts, switches, capacitors, and voltage regulators.
- 6. Explain the procedures in locating cable fault sites.

#### **Textbooks & Other Resources or Links**

- 1. Shoemaker, Thomas M. and James E. Mack (2017). The Lineman's and Cableman's Handbook (13th/e). New York McGraw-Hill. ISBN: 978-0-07-185003-2
- 2. Transformation for Lineworkers . 2nd Alexander. ISBN: B0024KX8XA.
- 3. Imperial Irrigation District Lineman Apprenticeship Training Program Handbook. 1990.
- 4. Electrical Lineman Training Committee. Imperial Irrigation District. ISBN: .
- 5. Bertard Singer, Harry Forster and Mitchel E. Schultz. 2000. Basic Mathematics for Electricity and Electronics. Glencoe/McGraw-Hill. ISBN: 978-0028050225.
- 6. Michael I. Callanan and Bill Wusinich. 2017. Electrical Systems: Based on the 2017 NEC. 1st 1st American Technical Publishers. ISBN: 978-0826920324. . .
- 7. Fundamentals of Electricity Volume 1. 3rd Alexander Publications. ISBN: . . .
- 8. Fundamentals of Electricity Volume 2. 3rd Alexander Publications. ISBN: .

# **Course Requirements and Instructional Methods**

Assignments are designed to elicit your demonstration of critical thinking, understanding and application of the course concepts, and your proficiency in the subject matter.

#### Required Activities or Assignments Points

1. Homework, Assignments:	20
3. Mid-Term Exam:	40
4. Final Exam:	40

<u>Teaching Methods</u>: Discussion of assignments and instructional methods will be a combination of all methods of instruction, which can be classified as telling, lecturing, or discussing; showing or demonstrating.

<u>Out of Class Assignments</u>: Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes. Outside class assignments will include reading assigned textbooks, handouts, completion of exercises, periodic research, critiquing and analyzing problems, and attending safety meetings.

# What if I need to borrow technology or access to WIFI?

- 1. To request a loaner laptop, MYFI device, or other electronic device, please submit your request here: <a href="https://imperial.edu/students/student-equity-and-achievement/">https://imperial.edu/students/student-equity-and-achievement/</a>
- 2. If you'd like access the WIFI at the IVC campus, you can park in parking lots "I & J". Students must log into the IVC student WIFI by using their IVC email and password. The parking lots will be open Monday through Friday from 8:00 a.m. to 7:00 p.m.



#### **Guidelines for using parking WIFI:**

- -Park in every other space (empty space BETWEEN vehicles)
- -Must have facemask available
- -For best reception park near buildings
- -Only park at marked student spaces
- -Only owners of a valid disabled placard may use disabled parking spaces
- -Only members of the same household in each vehicle
- -Occupants **MUST** remain in vehicles
- -Restrooms and other on-campus services not available
- -College campus safety will monitor the parking lot
- -Student code of conduct and all other parking guidelines are in effect
- -Please do not leave any trash behind
- -No parking permit required

If you have any questions about using parking WIFI, please call Student Affairs at 760-355-6455.

#### **Course Grading Based on Course Objectives**

The course grade by letter grade only based on total points accumulated during the semester. There is a maximum of 100 points A. Very limited extra credit points <u>may</u> be available, either through some class participation activity, group work or perfect attendance. Failing to turn in regular assignments will stop you from being able to earn extra credit points and late assignments will have points subtracted.

Final Grades are calculated as follows:

Points	Grade
90-100	A
80-89	В
70-79	С
60-69	D
Below 60	F

<u>Grading Rubrics:</u> In addition to the percentages and points listed above the following grading rubric (standards expected) will be used when grading student assignments. The description that best fits your work will be the assigned grade.



#### Exam Rubric

Criteria			Ratings				Pts
This criterion is linked to a Learning Outcome Summative Assessment Complies With the Summative Assessment Objectives of evaluating student learning by comparing it against some kind of benchmark or standard of performance	100 to >90.0 pts  Excellent  All the answers are correct with no or very few calculation errors, and the calculations steps are correct. Please read Instructors comments after replying.	90 to >80.0 pts  Competent  At least 1 answer is incorrect (according to their percentage weight) with no or very few calculation errors, and the calculations steps are correct. Please read Instructors comments after replying.	80 to >70.0 pts  Developing  1 or 2 answers are incorrect (according to their percentage weight) with no or very few calculation errors, and the calculations steps are correct. Please read Instructors comments after replying.	70 to >60.0 pts  Beginning  2 or 3 answers are incorrect (according to their percentage weight) with no or very few calculation errors, and the calculations steps are correct. Please read Instructors comments after replying.	60 to >1.0 pts  Needs Improvement  3 or 4 answers are incorrect (according to their percentage weight) with no or very few calculation errors, and the calculations steps are correct. Please read Instructors comments after replying.	1 to >0 pts  Missing  The exam was missing	100 pt

Total Points: 100

Homework Rubric					
Criteria		Ratings		Pts	
This criterion is linked to a Learning Outcome Formative Assessment Complies With the Formative Assessment Objectives of monitoring learning while it is happening with the goal of determining comprehension, progress and learning needs.	70 pts Excellent The Homework was done completely according to the Homework Outline Instructions	40 pts Competent The Homework done but incompletely according to the Homework Outline Instructions	0 pts Missing The Homework was missing	70 pts	



Homework Rubric					
Criteria	Ratings			Pts	
Clearly organized	30 pts Excellent Clearly meets or exceeds assignment requirements	20 pts Generally focused Meets assignment requirements, but does not exceed	0 pts Missing The Homework was missing	30 pts	
Total Points: 100					

		Discussion Rubric			
Criteria	Ratings			Pts	
This criterion is linked to a Learning Outcome Formative Assessment Complies With the Summative Assessment Objectives of evaluating student learning by comparing it against some kind of benchmark or standard of performance	70 pts Excellent Up to 3 paragraphs with a video or an article attached	50 pts Competent Up to 2 paragraphs, no video or article attached.	30 pts Developing 1 paragraphs no video or article attached.	0 pts Missing No submission	70 pts
This criterion is linked to a Learning Outcome Focused					
and Clearly organized The ideas are presented in a way that they do not deviate from the Discussion subject	30 pts Excellent Critical thinking and analysis. Convincing evidence is provided to support conclusions via video or an article.	20 pts Competent Generally focused with some development of ideas, but may be simplistic or repetitive.	10 pts Beginning Unfocused, underdeveloped, or rambling, but has some coherence.	0 pts Missing No submission	30 pts
Total Points: 100					

<u>Late Assignments</u> will be accepted until the graded assignment is returned to the class, but assessed a penalty of 10 points per calendar day it is late.

# **Academic Honesty (Artificial Intelligence -AI)**

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.



#### **Course Policies**

#### **Attendance**

- The Department of Apprenticeship Standards (DAS) and IID require all apprenticeship students to complete all Related Supplemental Instruction (RSI) hours as noted on the Course Outline of Record. To abide by this policy/requirement, "students/apprentices who do not complete the required classroom instructional hours by end of the semester will be issued an "Incomplete". Students have until the end of the 6<sup>th</sup> week of the following semester (IVC policy) to make-up hours missed and earn a letter grade."
- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused
  absences exceed the number of hours the class is scheduled to meet per week may be dropped. For
  online courses, students who fail to complete required activities for two consecutive weeks may be
  considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

#### What does it mean to "attend" an online class?

Attendance is critical to student success and for IVC to use federal aid funds. Acceptable indications of attendance are:

- Student submission of an academic assignment
- Student submission of an exam
- Student participation in an instructor-led Zoom conference
- Documented student interaction with class postings, such as an interactive tutorial or computerassisted instruction via modules
- A posting by the student showing the student's participation in an assignment created by the instructor
- A posting by the student in a discussion forum showing the student's participation in an online discussion about academic matters
- An email from the student or other documentation showing that the student has initiated contact with a faculty member to ask a question about an academic subject studied in the course.

Logging onto Canvas alone is <u>NOT</u> adequate to demonstrate academic attendance by the student.

# **Academic Honesty**

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.



There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

#### How do I show academic honesty and integrity in an online "classroom"?

#### • KEEP YOUR PASSWORDS CONFIDENTIAL.

 You have a unique password to access online software like Canvas. Never allow someone else to log-in to your account.

#### • COMPLETE YOUR OWN COURSEWORK.

 When you register for an online class and log-in to Canvas, you do so with the understanding that you will produce your own work, take your own exams, and <u>will do so</u> <u>without the assistance of others</u> (unless directed by the instructor).

#### **Examples of Academic Dishonesty that can occur in an online environment:**

- Copying from others on a quiz, test, examination, or assignment;
- Allowing someone else to copy your answers on a quiz, test, exam, or assignment;
- Having someone else take an exam or quiz for you;
- Conferring with others during a test or quiz (if the instructor didn't explicitly say it was a group project, then he/she expects you to do the work without conferring with others);
- Buying or using a term paper or research paper from an internet source or other company or taking any work of another, even with permission, and presenting the work as your own;
- Excessive revising or editing by others that substantially alters your final work;
- Sharing information that allows other students an advantage on an exam (such as telling a peer
  what to expect on a make-up exam or prepping a student for a test in another section of the same
  class);
- Taking and using the words, work, or ideas of others and presenting any of these as your own work is plagiarism. This applies to all work generated by another, whether it be oral, written, or artistic work. Plagiarism may either be deliberate or unintentional.



# **Classroom Etiquette**

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.

# How do I act differently if I have an on-ground class during COVID?

# 1. DO NOT COME TO CAMPUS OR ATTEND AN OFF-CAMPUS CLASS IF YOU FEEL SICK, HAVE A FEVER, OR HAVE A COUGH

- a. Even if your symptoms are mild, stay home.
- b. Email your instructor to explain why you are missing class.
- c. <u>If you are sick with COVID-19 or think you might have COVID-19</u>, provides CDC guidance.
- d. If you have tested positive for COVID-19, you must self-quarantine for 14 days and then be without symptoms for at least 72 hours. Clearance is required prior to returning to any face-to-face interaction. It is recommended that you undergo a final COVID-19 test to confirm that you are no longer infected.
- e. If you are exposed through direct contact with a person known to be COVID-19 positive, then you must submit negative COVID-19 test results prior to returning to any face-to-face interaction.

# 2. ARRIVE AT CAMPUS EARLY (at least 15 minutes early is advised).

a. All people entering the IVC campus will need to pass a screening process, which will occur at the gates as your drive onto campus. You will need to take a short questionnaire and get your temperature taken (the screening is completely touchless and will take place while you remain in your car).

## 3. BRING A MASK TO CLASS (and always wear it).

a. Be sure that your mask covers both your nose and mouth. If your mask is cloth, then wash it each day. If your mask is disposable, then use a new one each day.

#### 4. GO DIRECTLY TO YOUR CLASSROOM.

a. The IVC campus is mostly closed so you should not visit other areas or seek any face-to-face services. Services are available to students online and can be accessed through <a href="https://www.imperial.edu">www.imperial.edu</a>.

#### 5. WASH YOUR HANDS FREQUENTLY (and use the provided sanitation supplies).

a. Your classroom is equipped with cleaning supplies. Use them as needed.

# 6. BE SURE TO SOCIAL DISTANCE (stay at least 6 feet from other).

a. The number of students in a classroom at any one time is very limited so you have plenty of space to spread and ensure that you stay at least 6 feet from others.

#### 7. BRING YOUR OWN FOOD AND DRINKS.



a. There is no food service currently offered on campus.

# **Online Netiquette**

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

# How am I expected to act in an online "classroom" (especially Zoom)?

Attending a virtual meeting can be a challenge when there are many students on one conference call. Participating in such meetings may count as class attendance, but disruptive behavior may also result in you not being admitted to future meetings. Follow the tips below for best results:

#### 1) Be RESPECTFUL

a. Your written, verbal, and non-verbal communications should be respectful and focused on the learning topics of the class.

#### 2) Find a QUIET LOCATION & SILENCE YOUR PHONE (if zooming)

**a.** People walking around and pets barking can be a distraction.

#### 3) EAT AT A DIFFERENT TIME.

- a. Crunching food or chugging drinks is distracting for others.
- b. Synchronous zoom times are set in advance so reserve meals for outside class meetings.

#### 4) ADJUST YOUR LIGHTING SO THAT OTHERS CAN SEE YOU

- a. It is hard to see you in dim lighting so find a location with light.
- b. If your back is to a bright window, you will be what is called "backlit" and not only is it hard on the eyes (glare) but you look like a silhouette.

#### 5) POSITION THE CAMERA SO THAT YOUR FACE AND EYES ARE SHOWING

- a. If you are using the camera, show your face; it helps others see your non-verbal cues.
- b. You may be at home, but meeting in pajamas or shirtless is not appropriate so dress suitably. Comb your hair, clean your teeth, fix your clothes, etc. before your meeting time to show self-respect and respect for others.

#### 6) Be READY TO LEARN AND PAY ATTENTION

- a. Catch up on other emails or other work later.
- b. If you are Zooming, silence your phone and put it away.
- c. If you are in a room with a TV turn it off.

#### 7) USE YOUR MUTE BUTTON WHEN IN LOUD PLACES OR FOR DISTRACTIONS

a. Pets barking, children crying, sneezing, coughing, etc. can happen unexpectedly. It's best if you conference in a private space, but if you can't find a quiet place, when noises arise **MUTE** your laptop.



#### 8) REMEMBER TO UNMUTE WHEN SPEAKING

- a. Follow your instructor's directions about using the "raise hand" icon or chat function to be recognized and to speak, but make sure you have unmuted your device.
- b. Do not speak when someone else is speaking.

#### 9) REMAIN FOCUSED AND PARTICIPATE IN THE MEETING

- a. Especially when the camera is on YOU, we can all see your actions. Engage in the meeting. Look at the camera. Listen to instruction. Answer questions when asked.
- b. Do not use the Zoom meeting to meet with your peers or put on a "show" for them.

#### 10) PAUSE YOUR VIDEO IF MOVING OR DOING SOMETHING DISTRACTING

a. Emergencies happen. If you need to leave the room or get up and move about, stop your video.

# **Students Rights and Responsibilities**

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC General Catalog.

#### **Other Course Information**

#### **Additional Services for Students**

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

#### How do I access services now that we are mostly online?

- CANVAS LMS. Canvas is Imperial Valley College's Learning Management System. To log onto Canvas, use this link: Canvas Student Login. The Canvas Student Guides Site provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- <u>Learning Services</u>. In order to accommodate students and maximize student success during the COVID-19 Pandemic, all tutoring support is being provided through one Zoom link (<u>IVC online Tutoring</u>). When campus is open again, there are several learning labs to assist students. Whether you need support using computers, or you need a tutor, please consult your <u>Campus Map</u> for the <u>Math Lab</u>; <u>Reading, Writing & Language Labs</u>; and the <u>Study Skills Center</u>.
- <u>Library Services</u>. Visit the Spencer Library's page on the IVC website for a wealth of valuable resources and online access to databases, e-books and more. Contact us so we can help you with instructional and research development skills (for those conducting research and writing academic papers). When campus re-opens, students also have access to tutoring services in the Study Skills Center as well as private study rooms for small study groups. There is more to our library than just books!



- <u>Career Services Center.</u> The Career Services Center is dedicated to serve all IVC students and Alumni.
   Services include Career Assessments, Resume and Cover Letter Assistance, Interview Preparation,
   Internship Opportunities and Job Placement.
- Child Development Center. The Preschool and Infant/Toddler Centers are on-campus demonstration lab programs that meet the educational, research, and service needs of the institution and community at large. The Preschool program (children three to five years of age) and the Infant/Toddler program (newborn to three years of age) is in buildings 2200 and 2300. Service is available to families who meet the California Department of Education qualifications for enrollment. The centers are open during COVID from Monday-Friday 7:15-5:30. Breakfast, lunch and snack are provided through the California Adult and Child Food Program. Location: Buildings 2200 and 2300. Phone: (760) 355-6528 or (760) 355-6232. Application: <a href="https://forms.imperial.edu/view.php?id=150958">https://forms.imperial.edu/view.php?id=150958</a>

# **Extended Opportunity Program and Services (EOPS)**

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, book grants, transportation assistance, individualized counseling, tutoring, and community referrals to eligible students. Our staff is available to assist and support students in navigating personal, psychological, academic, and/or career-related issues through empathy, cultural-competence, and a commitment to equity and social justice. Also under the umbrella of EOPS is the CARE (Cooperative Agency Resources for Education) Program, designed to serve single parents and assist with addressing issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid assistance may qualify for our CARE program. For additional information about the EOPS or CARE Programs please contact our Program Office 760.335-6407 and/or visit our Program website <a href="https://www.imperial.edu/students/eops">www.imperial.edu/students/eops</a> for eligibility criteria and application procedures. We look forward to serving you! - EOPS/CARE Staff

# **Student Equity Program**

The Student Equity & Achievement Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. SEA addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, LGBTQIA+, Veterans, foster youth, homelessness, and formerly incarcerated students. The SEA Program also houses IVC's Homeless Liaison, Foster Youth Liaison, Formerly Incarcerated Liaison, and Military Affiliated Liaison, who provide direct services and referrals to students in need. SEA strives to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to enrollment. education, degree and certificate completion, and the ability to transfer to a university. SEA also provides outreach at local Imperial County high schools to ensure graduating seniors are successfully matriculated into the college and have a strong support system. Please visit us online for assistance at



https://imperial.edu/students/student-equity-and-achievement/ or call us at 760-355-6465 or when campus reopens, visit Building 401.

#### What if I cannot afford food, books, or need other help?

We have many resources that are available to you. Please tell us what you need by submitting your request(s) here: <a href="https://imperial.edu/students/student-equity-and-achievement/">https://imperial.edu/students/student-equity-and-achievement/</a>

#### **IVC Student Resources**

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <a href="http://www.imperial.edu/studentresources">http://www.imperial.edu/studentresources</a> or click the heart icon in Canvas.

#### **Anticipated Class Schedule/Calendar**

Below is a tentative, provisional overview of the assignments, tests and/or other activities for the duration of the course that will assist you in meeting the course objectives and the Student Learning Outcomes.

Date	Activity, Assignment, and/or Topic	<b>Assignment Due</b>
August 15	Syllabus & Introduction	
(Week 1)		
August 22	A. Rules and Regulations	
(Week 2)	1. Safety Procedures	
August 22 (Week 2)	B. Identifying and dealing with hazardous materials	
August 29 to	C. Line Trucks, Derricks, and Digging Equipment	
October 2	1. Introduction to mobile hydraulic systems	
(Week 3 to 8)	2. Introduction to bucket trucks	
	3. Pre-use inspection	
	4. Bucket truck placement	
	5. Bucket truck operation	
	6. Material handling bucket trucks	
	7. Lifting a transformer	
	8. Digger derricks	
	9. Backhoes	
	10. Trenchers	
October 3 (Week 8)	Review for Mid Term Exam	
October 10	Mid Term Exam	
(Week 9)		
October 10 to	D. Distribution Line Maintenance II-Pole Top Equipment	
October 24	Maintenance	
(Week 9 to 11)	1. Overhead distribution system design (delta and wye)	
ĺ	2. Transformer connections (single and three-phase)	



Date	Activity, Assignment, and/or Topic	<b>Assignment Due</b>
	3. Troubleshooting transformers (single and three-phase)	
	4. Pole top transformer replacement	
October 31 to	E. Troubleshooting and replacing	
November 7	1. Cutouts	
(Week 12 to 13)	2. Switches	
	3. Sectionalizers and reclosers	
	4. Capacitors	
	5. Voltage regulators	
November 14	F. Underground Line Maintenance II-Transformers,	
(Week 14)	Switchgear, and Cable Fault Location	
	1. Underground residential distribution transformers	
	2. Pad-mounted transformers and switchgear	
	3. Cable fault location	
November 21	No classes	
November 28	F. Underground Line Maintenance II-Transformers,	
(Week 15)	Switchgear, and Cable Fault Location (Continuation)	
	1. Underground residential distribution transformers	
	2. Pad-mounted transformers and switchgear	
	3. Cable fault location	
November 28	Review for Final Exam	
(Week 15)		
December 5	Final Examination	
(Week 16)		

<sup>\*\*\*</sup>Tentative, subject to change without prior notice\*\*\*