

1st Year Lesson Plan School Year 2023 - 2024

Ses.	Dates	Test	Instruc.	Sub.	Lesson # / Lesson Description	Workbook #
1	9/11 - 9/14/23	No Test			LMS Registration , Orientation	
				Comet	An Introduction to the COMET Program	
				Lab	Blended Learning Program Registration	
					HOMEWORK Harassment Prevention: 2023 - CML	HOMEWORK
2	9/25 - 9/28/23	No Test	A.A.	Orien.I	1. How to Study This Course & Achieve Your Personal Goals	LMS
				Orien.I	2. The Attributes of an IBEW / NECA Apprenticeship	LMS
				Orien.I	3. Knowing Your Apprenticeship & Your Responsibilities	LMS
				Orien.I	4. The IBEW & Its History	LMS
			M.M.	Orien.I	5. NECA's Structure & Heritage	LMS
				Orien.I	6. Your Job & the Future it Holds for You	LMS
				Orien.I	7. Sexual Harassment	LMS
				Orien.I	8. The Economics of Employment	LMS
			D.H.	Lab	Milwaukee Power Tools 101	
3	10/9 - 10/12/23	No Test	A.A.	Orien.II	3. Understanding Your Local Union By-Laws	LMS
				Orien.II	4. Parliamentary Procedure and How it Works	LMS
				Elec. Job Info.	- Intro to CML Courses -	LMS -CML
					1. Safety Awareness in the Workplace	LMS -CML
			M.M.	Orien.I	9. Safety Never Takes a Break	LMS
				Orien.II	1. Avoiding the Hazards of Drug Abuse / Film	LMS
				Orien.II	2. Becoming Familiar with the IBEW Constitution	LMS
			D.H.	Lab	Applications Manual Chapters 1, 2, 3, & 20 (Splicing & Fill)	J300.K
4	10/23 - 10/26/23	Test #1	A.A.	Elec. Job Info.	2. Identifying Basic Tools & Materials of the Trade	LMS -CML
				Elec. Job Info.	3. Basics of Insulated Conductors	LMS -CML
				Elec. Job Info.	4. Choosing and Installing Anchors and Fasteners	LMS -CML
			M.M.	Elec. Job Info.	5. Types of Building Construction	LMS -CML
				Elec. Job Info.	6. Conductor Installation	LMS -CML
				Elec. Job Info.	7. Devices and Switches	LMS -CML
			D.H.	Lab	Applications Manual Chapter 10 (Knots & Ladders)	J300.K
5	11/6 - 11/9/23	No Test	A.A.	Elec. Job Info.	8. Introduction to Firestopping	LMS -CML
				Elec. Job Info.	9. Sizing Building Wire	LMS -CML
				Elec. Job Info.	10. Topic Review	LMS -CML
			M.M.	OSHA 10	1. OSHA Policies and Procedures	J050.SW
				OSHA 10	2. Record Keeping Basics, Inspections, Penalties, Citations	J050.SW
				OSHA 10	3. General Safety and Health Provisions (Subpart C)	J050.SW
			D.H.	Lab	App Manual Chapters 1, 2, 3, 4, 16, & 17 (Skills USA) 1	J300.K

Ses.	Dates	Test	Period	Sub.	Lesson # / Lesson Description	Workbook #	
6	11/27 - 11/30/23	Test #2	A.A.	C. Fab. I	1. How to Work with Fractions	LMS	
				C. Fab. I	2. Using Basic Trigonometric Functions	LMS	
				C. Fab. I	3. Introduction to Conduit Bending	LMS	
				C. Fab. I	4. Conduit Types	LMS	
				M.M.	OSHA 10	4. Value of Safety and Health	J050.SW
					OSHA 10	5. Fall Protection (Subpart M)	J050.SW
					Codeo.	1. Overview, Organization & Chapter 1 of the NEC	LMS -CML
					Codeo.	2. Planning the Install	LMS -CML
				D.H.	Lab	Applications Manual Chapters 8, 11 (90 degree Bends)	J300.K
7	12/11 - 12/14/23	No Test	A.A.	C. Fab. II	1. Conduit Threading Techniques	LMS	
				C. Fab. I	5. Hand Fabrication of 90 Degree Stubs	LMS	
				C. Fab. I	6. Hand Fabrication of Back-to-Back Bends	LMS	
				C. Fab. I	7. Hand Bending Offsets and Kicks	LMS	
				M.M.	OSHA 10	6. Electrical Safety (Subpart K)	J050.SW
					OSHA 10	7. General Construction Hazards	J050.SW
					Codeo.	3. Building the Installation	LMS -CML
					Codeo.	4. Using the Electricity	LMS -CML
				D.H.	Lab	Applications Manual Chapter 15 (Threading Rigid) *** BRING GLOVES AND SAFETY GLASSES ***	J300.K
8	1/8 - 1/11/24	Test #3	A.A.	C. Fab. I	8. Hand Bending Three & Four Bend Saddles	LMS	
				C. Fab. II	2. Push-Through Bending: 90 Degree Bends	LMS	
				C. Fab. II	3. Bending Kicks, Offsets, and Saddles using Push-Through	LMS	
				C. Fab. II	4. Segmented Bends	LMS	
				M.M.	OSHA 10	8. Personal Protection and Life Saving Equipment (Subpart E)	J050.SW
					OSHA 10	9. Health Hazards in Construction (Subpart D)	J050.SW
					Codeo.	5. Special Occupancies	LMS -CML
					Codeo.	6. Special Equipment	LMS -CML
				D.H.	Lab	Applications Manual Chapter 12 (Conduit Bending)	J300.K
9	1/22 - 1/25/24	No Test	A.A.	Codeo.	7. Special Conditions	LMS -CML	
				Codeo.	8. Communications	LMS -CML	
				Codeo.	9. Tables and Info Annexes	LMS -CML	
				M.M.	Codeo.	10. The Codeology Method	LMS -CML
					Codeo.	11. Post-Course Assessment	LMS -CML
					OSHA 10	10. Materials Handling, Storage, Use, & Disposal (Subpart H)	J050.SW
					OSHA 10	11. Tools, Hand and Power (Subpart I)	J050.SW
				D.H.	Lab	Applications Manual Chapter 12 (Conduit Bending)	J300.K
				10	2/5 - 2/8/24	Test #4	A.A.
C S P.1	2. Interpreting the Language of the NEC Article 100	LMS					
C S P.1	3. Understanding and Applying Article 110 of the NEC	LMS					
M.M.	C S P.1	4. Understanding and Applying Article 110 of the NEC II	J050.SW				
	OSHA 10	12. Scaffolds, (Subpart L)	J050.SW				
	OSHA 10	13. Cranes, Derricks, Hoists, Elevator, & Coveyers (Subpart N)	LMS				
D.H.	Lab	Applications Manual Chapter 13 & 14 (Knockouts & Hangers)	J300.K				

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11	2/19 - 2/22/24	No Test	A.A.	C S P.1	5. General Building Wire Properties and the NEC	LMS
				C S P.1	6. Understanding Cond. Insulation and NEC Specifications	LMS
				C S P.1	7. Introduction to Wiring Devices	LMS
			M.M.	C S P.1	8. General Requirements Related to Installing Wiring Devices	J050.SW
				OSHA 10	14. Excavations (Subpart P)	J050.SW
				OSHA 10	15. Strairways and Ladders (Subpart X)	LMS
D.H.	Lab	Skills USA 2	J300.K			
12	3/4 - 3/7/24	Test #5	A.A.	DC Th. I	1. What is Electricity?	LMS
				DC Th. I	2. Electrical Energy Sources	LMS
				DC Th. I	3. Electrical Switches	LMS
				DC Th. II	8. Introduction to Test Instruments	LMS
			M.M.	C S P.1	9. Gen. Req. Related to Installing Industrial Wiring Devices	LMS
				C S P.1	10. Specific Receptacle Installation Requirements	LMS
				C S P.1	11. Specfic Switch Installation Requirements	LMS
D.H.	Lab	DC Theory Lab (Blue Boxes)				
13	3/18 - 3/21/24	No Test	A.A.	DC Th. I	4. Conductors, Conductor Resistance, and Wattage Loss	LMS
				DC Th. I	5. Introduction to Electrical Devices	LMS
				DC Th. II	6. Energized Circuits and the Potential Hazards They Possess	LMS
			M.M.	Elec.Saf I	1. Electrical Safety Culture	LMS
				Elec.Saf I	2. Electrical Hazard Awareness	LMS
				Elec.Saf I	3. OSHA Considerations	LMS
D.H.	Lab	Skills 3				
14	4/1 - 4/4/24	Test #6	A.A.	DC Th. I	6. Current, Voltage, Resistance in a Circuit	LMS
				DC Th. I	7. The Electrical Circuit and Ohm's Law	LMS
				DC Th. I	8. Power in a Circuit	LMS
				DC Th. II	7. How to Draw Basic Electrical Circuits Correctly	LMS
			M.M.	Elec.Saf I	4. Lockout, Tagging, and the Control of Hazardous Energy	LMS
				Elec.Saf II	1. Introduction to NFPA 70E	LMS
				Elec.Saf II	2. Work Involving Electrical Hazards	LMS
D.H.	Lab	DC Theory Lab				
15	4/15 - 4/18/24	No Test	A.A.	DC Th. II	1. The Series Circuit	LMS
				DC Th. II	2. Understanding & Calculating Resistance in a Series Cir.	LMS
				DC Th. II	3. How Current Reacts in DC Series Circuits	LMS
			M.M.	Elec.Saf II	3. Identifying OCPD Types	LMS
				Elec.Saf II	4. Methods to Select Arc Flash PPE	LMS
				Elec.Saf I	5. Fault Current Fundamentals	LMS
D.H.	Lab	DC Theory				
16	4/29 - 5/2/24	Test #7	A.A.	DC Th. II	4. How Voltage Functions in DC Series Circuits	LMS
				DC Th. II	5. How to Calculate Power in a DC Series Circuit	LMS
				DC Th. III	3. Working With Ratios and Proportions	LMS
			M.M.	Elec.Saf II	5. Maintenance Considerations	LMS
				Elec.Saf II	6. Eliminating and Reducing Haz.s by Design and Upgrade	LMS
				Blu.Prt.I	1. The Fundamentals of Blueprint Drawings	LMS
			D.H.	Lab	Conduit Bending	

Ses.	Dates	Test	Period	Sub.	Lesson # / Lesson Description	Workbook #
17	5/13 - 5/16/24	No Test	A.A.	DC Th. III	1. How Current Reacts in DC Parallel Circuits	LMS
				DC Th. III	2. Understanding Resistance in DC Parallel Circuits	LMS
				M.M. Blu.Prt.I	2. Understanding Architectural Views	LMS
				Blu.Prt.I	3. Recognizing and Understanding Common Scales	LMS
				Blu.Prt.I	5. Using Blueprint Specifications, Elevations & Schedules	LMS
D.H. Lab	DC Theory Lab					
18	5/28 - 5/30/24	Test #8	A.A.	DC Th. III	4. How Voltage Functions in DC Parallel Circuits	LMS
				DC Th. III	5. How to Calculate Power in DC Parallel Circuits	LMS
					MENTEE TRAINING	workbook
				M.M.	MENTEE TRAINING	workbook
				Blu.Prt.I	6. Understanding and Drawing Electrical Symbols	LMS
Monday's class in on Tues. - Memorial Day				Blu.Prt.I	7. Understanding and Drawing Mechanical Symbols	LMS
	D.H. Lab	DC Theory Lab				
	19	6/10 - 6/13/24	No Test	A.A.	DC Th. IV	1. Understanding Resistance in DC Combination Circuits
				DC Th. IV	2. How Current Reacts in DC Combination Circuits	LMS
				DC Th. IV	3. How Voltage Functions in DC Combination Circuits	LMS
			M.M.	Blu.Prt.I	8. Understanding How to Properly Use Residential Blueprint	LMS
				Blu.Prt.I	9. Reading and Analyzing a Residential Blueprint	LMS
D.H. Lab	DC Theory Lab					
20	6/24 - 6/27/24	Test #9	A.A.	DC Th. IV	4. How to Calculate Power in DC Combination Circuits	LMS
				DC Th. IV	5. How Voltage and Current Dividers Work	LMS
				DC Th. IV	6. The Design and Operation of Three Wire Single Phase Sys.	LMS
				M.M. C S P.2,L1	1. Understanding the Principles in sizing of Building Wire	LMS
				C S P.2,L1	2. Branch Circuits I	LMS
	C S P.2,L1	3. Branch Circuits II	LMS			
D.H. Lab	DC Theory Lab & Neutral 3-Wire					
21	7/8- 7/11/24	No Test	A.A.	DC Th.V	1. Applying The Principle of Superposition to Circuit Calc.	LMS
				DC Th.V	2. Kirchhoff's Laws	LMS
				DC Th.V	3. Thevenin's and Norton's Theorems	LMS
				M.M. C S P.2,L1	4. Feeders & Outside Branch Circuits and Feeders	LMS
				C S P.2,L1	5. Services	LMS
	C S P.2,L1	6. Switches, Receptacles, and Luminaires	LMS			
D.H. Lab	Skills USA Wiring (No Lecture) / JATC House					
22	7/22 - 7/25/24	Test #10	A.A.	DC Th.V	4. Understanding the Principles of Magnetism	LMS
				DC Th.V	5. Understanding the Principles of Electromagnetism	LMS
				DC Th.V	6. DC Generators and Motors	LMS
				DC Th.V	7. Using DC Theory to Solve Real World Problems	LMS
				M.M. C S P.2,L2	1. Conduit and Raceway Basics	LMS
	C S P.2,L2	2. NEC Requirements for Cable Assemblies	LMS			
	C S P.2,L2	3. General Requirements for Wiring Methods & Materials	LMS			
D.H. Lab	DC Generators and Motors					

Ses.	Dates	Test	Period	Sub.	Lesson # / Lesson Description	Workbook #	
23	8/12 - 8/15/24	No Test	A.A.	CSP.2,L2	4. Conductors for General Wiring	LMS	
				CSP.2,L2	5. Electrical Nonmetallic Tubing (ENT)	LMS	
				CSP.2,L2	6. Liguidtight Flexible Conduit: Types LFNMC & LFMC	LMS	
				M.M.	Tst.Inst.	1. Voice Data Video (VDV) Test Instruments	LMS
					Tst.Inst.	2. Power Quality Test Instruments	LMS
					Tst.Inst.	3. High Voltage and Insulation Test Instruments	LMS
				D.H.	Lab	Test Instruments #1 - CAT 5 / Testing	
24	8/26 - 8/29/24	Test #11	A.A.	Torque	1. Torque Theory	LMS	
				Torque	2. Threaded Fasteners Basics	LMS	
				Torque	3. Introduction to Torque Applications	LMS	
				Torque	4. Torque Products	LMS	
				Torque	5. Real World Electrical Torque Applications	LMS	
				M.M.	Tst.Inst.	4. Instrumentation and Process Control Test Instruments	LMS
					Tst.Inst.	5. Special Maintenance Test Instruments	LMS
					Tst.Inst.	6. Troubleshooting	LMS
D.H.	Lab	Torque					

