2nd Year Lesson Plan School Year 2025 - 2026

Wk.	Dates	Test	Period	Sub.	Lesson # / Lesson Description
1	9/15 - 9/18	**No Test**	A A	E.T. 2 - AC Sys	1. Electrical Theory Review
				E.T. 2 - AC Sys	2. Effects of Electromagnetism
			M M	C S P.3	1. Purpose of Overcurrent Protection & Types of Overcurrents
				C S P.3	2. Overcurrent Protective Device Categories
			J J	Constr. Documen.	1. Moving Beyond Construction Drawings
				Constr. Documen.	2. Introduction into Construction Estimating
			M J	Lab	Conduit Bending - 90's, saddles
2	9/29 - 10/2	**No Test**	A.A.	E.T. 2 - AC Sys	3. DC Theory Review
				E.T. 2 - AC Sys	4. Circuit Calculations for Basic 2 Wire Systems
			M.M.	C S P.3	3. Overcurrent Protective Device Ratings
				C S P.3	4. Types of OCPD - Circuit Breakers
			J J	Constr. Documen.	3. Project Delivery Methodologies
			MJ	Lab	Parallel Offsets
3	10/13 - 10/16	**Test #1 MM**	A.A.	E.T. 2 - AC Sys	5. Understanding Vectors
				E.T. 2 - AC Sys	6. Elements of AC Generation
			M.M.	C S P.3	5. Types of OCPD - Fuses
				C S P.3	6. Practical Guidelines for OCPD Ampacity Sizing
			J J	Constr. Documen.	4. Construction Project Communication
			MJ	Lab	Conduit Running - EMT
4	10/27 - 10/30	**Test #2 AA**	A.A.	E.T. 3 - AC Theory	1. Intro to Alternating Current
			M.M.	C S P.3	7. Special Conductor Overcurrent Permitted including Taps
				C S P.3	8. Calculation of Fault Currents
			J J	Constr. Documen.	5. Project Detailing
			MJ	Lab	Knot Tying
5	11/10 - 11/13	**Test #3 MJ**	A.A.	E.T. 3 - AC Theory	2. Inductors, Inductance, XL, L,and RL
			M.M.	C S P.4	1. Special Occupancies
				C S P.4	2. Electrical Equipment
			J J	Constr. Documen.	6. Prefabrication
			M J	Lab	TESTING

Wk.	Dates	Test	Period	Sub.	Lesson # / Lesson Description
6	12/1 - 12/4	**Test #4 J J**	A.A.	E.T. 3 - AC Theory	2. Inductors, Inductance, XL, L,and RL
			M.M.	C S P.4	3. Special Equipment
				C S P.4	4. Intro to Cable Tray Systems
			J J	Constr. Documen.	7. Project Closeout and Building Operation
					*** BLUEPRINT PROJECT DIRECTIONS AND START ***
			M J	Lab	AC Theory Lab
7	12/15 - 12/18	**Test #5 MM**	A.A.	E.T. 3 - AC Theory	2. Inductors, Inductance, XL, L,and RL
			M.M.	C S P.4	5. Installing Surface Metal Raceways
				C S P.5	1. Installing Electrical Services
			J J	Res. Code 2	1. Selecting the Proper Box or Conduit Body
				Res. Code 2	2. Branch Circuit Requirements for Dwelling Units
			D.H.	Lab	AC Theory Lab
8	1/12 - 1/15	**Test #6 AA**	A.A.	E.T. 3 - AC Theory	3. Capacitors, Capacitance, XC, C and RC
			M.M.	C S P.5	2. Swimming Pools, Fountains and Similar Installations
				C S P.5	3. Understanding emergency and Standby Systems
			J J	Res. Code 2	3. Sizing Building Wire for Dwelling Units
				Res. Code 2	4. Calculating Conductor Ampacity
			M J	Lab	Conduit Running - Rigid
9	1/26 - 1/29	**Test #7 MJ**	A.A.	E.T. 3 - AC Theory	3. Capacitors, Capacitance, XC, C and RC
			M.M.	C S P.5	4. Over 1,000 Volt Installations
				C S P.5	5. Remote Control, Signaling and Power Limited Circuits
			J J	Res.Code 2	5. NEC Requirements for Cable Assemblies
				Res.Code 2	6. Wiring Methods for Dwelling Units - Gen. Int. Req's
			M J	Lab	TESTING
10	2/9 - 2/12	**Test #8 J J**	A.A.	E.T. 3 - AC Theory	3. Capacitors, Capacitance, XC, C and RC
			M.M.	C S P.6	1. Motor Branch Circuit Devices and Protection
				C S P.6	2. Motor Branch Circuits and A/C & Refrig Equip.
			J J	Res.Code 2	7. NEC Req's for Switch and Receptacles
				Res.Code 2	8. NEC Req's for Specialty Circuit Interrupters
			M J	Lab	AC Theory

Wk.	Dates	Test	Period	Sub.	Lesson # / Lesson Description
11	2/23 - 2/26	**Test #9 MM**	A.A.	E.T. 3 - AC Theory	4. Series LC and RLC Circuits
			M.M.	C S P.6	3. Transformer Protection
			J J	Res.Code 2	9. NEC Req's for Luminares in Dwelling Units
				Res.Code 2	10. Nec Req's for Lighting & Recept. Branch Circuits
			D.H.	Lab	AC Theory Lab
12	3/9 - 3/12	**Test #10 AA**	A.A.	E.T. 3 - AC Theory	4. Series LC and RLC Circuits
			M.M.	C S P.6	4. Interupting Rating: Fully Rated & Series Rated Sys
			J J	Res.Code 2	11. NEC Req's for Metal Raceways-Types EMT & FMC
					*** BLUEPRINT PROJECT DUE (Presentation) ***
			M J	Lab	Skills Boards
13	3/23 - 3/26	**Test #11 MJ**	A.A.	E.T. 3 - AC Theory	5. Parallel RL, RC, RLC and LC Circuits
			M.M.	C S P.6	5. Equipment Short Circuit Protection
			J J	XFMR Princ & Appl - 1	1. Transformer Operation
			M J	Lab	TESTING
14	4/6 - 4/9	**Test #12 J J**	A.A.	E.T. 3 - AC Theory	5. Parallel RL, RC, RLC and LC Circuits
			M.M.	C S P.6	6. Selective Coodination
			J J	XFMR Princ & Appl - 1	2. Transformer Clasification
			M J	Tab	AC Theory
15	4/20 - 4/23	**Test #13 MM**	A.A.	E.T. 3 - AC Theory	5. Parallel RL, RC, RLC and LC Circuits
			M.M.	C S P.6	7. Ground-fault Protection of Equipment
			J J	XFMR Princ & Appl - 1	3. Single Phase Transformer Connections
			M J	Lab	Transformers

Wk.	Dates	Test	Period	Sub.	Lesson # / Lesson Description
16	5/4 - 5/7	**Test #14 AA**	A.A.	E.T. 3 - AC Theory	6. Comparing Series and Parallel RLC Circuits and Analizing Combination RLC Circuits
			M.M.	Motor for Elect.s	1. Magnetism and Induction review 2. Motor Nameplates
			J J	XFMR Princ & Appl - 1	4. 3 Phase Transformer Connections
			M J	Lab	Motor's Lab
17	5/18 - 5/21	**Test # 15 MJ**	A.A.	E.T. 3 - AC Theory	6. Comparing Series and Parallel RLC Circuits and Analizing Combination RLC Circuits
			M.M.	Motor for Elect.s	3. AC Alternators 4. 3 Phase Motors
			J J	Rigging for Elect Ind.	1. Hoisting Safety
				Rigging for Elect Ind.	2. Cranes
			M J	Lab	TESTING
18	6/1 - 6/4	**Test #16 J J**	A.A.	E.T. 3 - AC Theory	7. Introduction to AC Applications
			M.M.	Motor for Elect.s	5. Motor Types 6. Single Phase Motors
			J J	Rigging for Elect Ind.	3. Lift Planning
				Rigging for Elect Ind.	4. Signaling
			M J	Lab	Motor Control - VFD's
19	6/15 - 6/18	**Test #17 MM**	A.A.	E.T. 3 - AC Theory	7. Introduction to AC Applications
			M.M.	Motor for Elect.s	7. Motor Protection
			J J	Rigging for Elect Ind.	5. Load Weight and Balance
				Rigging for Elect Ind.	6. Slings and Sling Hitches
			M J	Lab	Motor Control Lab
20	6/29 - 7/2	**Test #18 AA**	A.A.	Motor Control	1. Introduction to Motor Control and the Industry 2. Electrical Safety with Motor Controls
			M.M.	Motor for Elect.s	8. DC Motors
			J J	Rigging for Elect Ind.	7. Rigging Equipment Maintenance
				Rigging for Elect Ind.	8. Rigging Hardware
			M J	Lab	Motor Control Lab

Wk.	Dates	Test	Period	Sub.	Lesson # / Lesson Description
21	7/13 - 7/16	**Test #19 MJ**	A.A.	Motor Control	3. Symbols, Diagrams, Drawings and Logic
			M.M.	Motor for Elect.s	9. Starting and Stopping Motors
			J J	Rigging for Elect Ind.	9. Chains and Chain Slings
				Rigging for Elect Ind.	10. Synthetic Slings
			M J	Lab	TESTING
22	8/3 - 8/6	**Test #20 J J**	A.A.	Motor Control	4. Input and Output Devices
			M.M.	Motor for Elect.s	10. Motor Alignment
			J J	Rigging for Elect Ind.	11. Wire Rope and Wire Rope Slings
				Rigging for Elect Ind.	12. Fiber Rope and Knots
			M J	Lab	Motor Control Lab
23	8/17 - 8/20	**Test #21 MM**	A.A.	Motor Control	5. Solenoids and Control Relays
			M.M.	Motor for Elect.s	11. Troubleshooting Motors
			J J	Rigging for Elect Ind.	13. Block and Tackle
				Rigging for Elect Ind.	14. Hoists
			M J	Lab	Motor Control Lab
24	8/31 - 9/3	**Test #22 AA**	A.A.	Motor Control	6. Control Transformers
			M.M.	Ltng. Pro.	1. Lightning Protection Systems Introduction
				Ltng. Pro.	2. Lightning Protection Systems - Ground Work
				Ltng. Pro.	3. Down Conductors and Bonding
			J J	Ltng. Pro.	4. Roof Tops
				Ltng. Pro.	5. Concealed and Structural Steel Systems
				Ltng. Pro.	6. Bonding Requirements and Potential Equalization
				Ltng. Pro.	7. Surge Protection Devices
			M J	Lab	Cadwelding