

## Electro-Mechanical Technology Courses and Booklist

Electro-Mechanical Technology Courses and Booklist <i>Electrical and Electronic Assembler</i>					Prerequisite: None	
1st Trimester		Certificate: Electrical and Electronic Assembler				
COURSE NUMBER	BOOKS AND SUPPLIES	PUBLISHER	ISBN	COST	QTY	
ELM-0001 Worker Characteristics	None	None		\$0.00		
ELM-1011 Technology Foundations	None-Computer Based Instruction (Provided)	WIN System		\$0.00		
ELM-1012 Orientation & Safety	OSHA 10 Voucher (Provided)	CareerSafe		\$0.00		
ELM-1013 Customer Service	Soft Skills for the Workplace (ebook)	Goodheart-Wilcox	979-8-89448-348-1	\$29.00		
ELM-1014 Basic Math	None-Computer Based Instruction (Provided)	Nida		\$0.00		
ELM-1040 Computer Concepts I	Welcome to Computer Basics Windows 11 Ed. (ebook)	Labyrinth Learning	978-1-64061-523-6	\$34.00		
ELM-1050 DC Circuits I	None-Computer Based Instruction (Provided)	Nida		\$0.00		
	Scientific Calculator (Casio fx-300MS or equivalent)	Casio		\$18.00		
	Digital Multimeter (Klein MM400 or equivalent)	Klein		\$68.00		
ELM-1060 Soldering Techniques/Tools	Soldering Project Kit (96901410)	Nida		\$31.00		
	Jameco Soldering Kit	Jameco		\$40.00		
ELM-1070 Electronics for Maintenance	None-Computer Based Instruction (Provided)	Nida				
ELM-1080 Worker Ethics & Ex. I	None-Employability Skills (provided by instructor)	CareerSafe		\$0.00		
ELM-1091 Integrated Projects I	Cables and Connectors Kit (96901459)	Nida		\$66.00		
<b>432 Contact Hours</b>		<b>Trimester 1 Books, Tests, and Supplies Total</b>		<b>\$286.00</b>		

**Note: Prices are estimates and subject to change without notice; state sales tax will be added to certain items**

**Student is responsible for miscellaneous material (paper, pencils, tools, etc.)**

**revised 08/08/2025**

**(effective Fall 2025)**

Electro-Mechanical Technology Courses and Booklist <i>Electrician Helper</i>			Prerequisite: Electrical and Electronic Assembler Certificate			
2nd Trimester		Certificate: Electrician Helper 864 Total Contact Hours				
COURSE NUMBER		BOOKS AND SUPPLIES	PUBLISHER	ISBN	COST	QTY
ELM-0002	Worker Characteristics	None	None		\$0.00	
ELM-2010	Commercial Wiring I	Modern Commercial Wiring Textbook Workbook Bundle 2023	Goodheart-Wilcox	979-8-88817-288-9	\$134.00	
ELM-2020	Commercial Wiring II	Model 9000 Commercial/Industrial Trainer Workbook	FutureTek	SM9000CW	\$62.00	
		Ugly's Electrical Pocket Handbook	Gardner Bender	978-1284194531	\$18.00	
ELM-2030	Commercial Wiring III	Model CWT300 Trainer Workbook	FutureTek	978-0-578-10932-9	\$62.00	
		Ugly's Conduit Bending Pocket Handbook	Gardner Bender	978-1284201147	\$24.00	
ELM-2040	Intro. to Applied Technology	None-Employability Skills (provided by instructor)	CareerSafe		\$0.00	
ELM-2050	Power Distribution	None-Computer Based Instruction (Provided)	Nida		\$0.00	
ELM-2060	Power Technology I	Investigations in Power Technology	Festo	583758	\$30.00	
ELM-2070	Worker Ethics & Ex. II	None-Employability Skills (provided by instructor)	CareerSafe		\$0.00	
ELM-2080	Integrated Projects II	None-Project Provided by Instructor			\$0.00	
432 Contact Hours (864 Total Contact Hours)			Trimester 2 Books, Tests, and Supplies Total		\$330.00	

Electro-Mechanical Technology Courses and Booklist <i>Maintenance Associate Diploma</i>					Prerequisite:Electrician Helper Certificate
3rd Trimester		Diploma:Maintenance Associate 1296 Total Contact Hours			
COURSE NUMBER	BOOKS AND SUPPLIES	PUBLISHER	ISBN	COST	QTY
ELM-0003 Worker Characteristics	None	None		\$0.00	
ELM-3010 Pneumatics I	Pneumatic Fundamentals	Festo	584196	\$30.00	
	Industrial Pneumatic Technology (supplied)	Parker	978-155769-014-2	\$0.00	
ELM-3020 Principles of PLC's	CM-284-L1 PAC Workbook 2nd Ed. Version 2.11	TII		\$120.00	
	Programmable Logic Controllers Connect Access Card 6e	McGraw-Hill	9781264446735	\$135.00	
	PLCLogix 5000 Simulation Software plclogix.com	Login Design Inc.		\$147.50	
	(The above software must be purchased online)				
ELM-3030 AC Motors	None-Computer Based Instruction (Provided)	Nida		\$0.00	
ELM-3040 AC Drive Fundamentals	SM PF-40 Drive Student Lab Manual	Future Tek		\$67.00	
ELM-3050 Professional Development	Connect to Your Career 4th Ed. (ebook)	Good-Heart Willcox	979-8-88817-179-0	\$37.50	
ELM-3060 Robotics I	Mechatronics Training Guide (Provided by Instructor)	Festo		\$0.00	
ELM-3070 Worker Ethics & Ex. III	None-Employability Skills (provided by instructor)	CareerSafe		\$0.00	
ELM-3080 Integrated Projects III	SM-L24-SAS-SIM-V32 Student Lab Manual	Future Tek		\$63.00	
<b>432 Contact Hours (1296 Total Contact Hours)</b>					<b>Trimester 3 Books, Tests, and Supplies Total \$600.00</b>

Electro-Mechanical Technology Courses and Booklist <i>Maintenance Electrician Diploma</i>			Prerequisite: Maintenance Associate Diploma			
4th Trimester		Diploma:Maintenance Electrician 1728 Total Contact Hrs.				
COURSE NUMBER		BOOKS AND SUPPLIES	PUBLISHER	ISBN	COST	QTY
ELM-0004	Worker Characteristics	None	None		\$0.00	
ELM-4010	Industrial Sensors	Principles and Applications of Industrial Sensors	TII	MB600	\$73.00	
ELM-4020	Intermediate PLC Progr.	SM-PanelView Plus 7 Student Lab Manual	Future Tek		\$67.00	
		Automation and Robotics-FMS (Provided by Instructor)	Festo		\$0.00	
ELM-4030	Advanced Pneumatics	Electrical Controls of Pneumatic Systems	Festo	978-2-89289-410-3	\$30.00	
ELM-4040	Control of Industrial Motors	Control of Industrial Motors	Festo	978-2-89289-143-3	\$30.00	
ELM-4050	Integrated Projects IV	Model 7100 ICST (Provided by Instructor)	Future Tek		\$0.00	
ELM-4060	Worker Ethics & Ex. IV	Connect to Your Career 3rd Ed. (Purchased in 3rd Trimester)	Good-Heart Willcox	978-1-64564-747-8	\$0.00	
432 Contact Hours (1728 Total Contact Hours)			Trimester 4 Books, Tests, and Supplies Total		\$200.00	

Electro-Mechanical Technology Courses and Booklist <i>Electro-Mechanical Tech.Diploma</i>			Prerequisite: Maintenance Electrician Diploma			
5th Trimester		Diploma:Electro-Mechanical Tech. 2160 Total Contact Hrs.				
COURSE NUMBER		BOOKS AND SUPPLIES	PUBLISHER	ISBN	COST	QTY
ELM-0005	Worker Characteristics	None	None		\$0.00	
ELM-5010	Hydraulics I	Explorer II Hydraulics	TII		\$77.00	
ELM-5020	Hydraulics II/III	Explorer II Hydraulics	TII		\$0.00	
ELM-5060	Mechanical Systems	Festo LX-Provided by Instructor	Festo		\$0.00	
ELM-5070	Instrume. & Process Control	Festo LX-Provided by Instructor	Festo		\$0.00	
ELM-5080	Advanced PLC's & Automation	Festo LX-Provided by Instructor	Festo		\$0.00	
432 Contact Hours (2160 Total Contact Hours)			Trimester 5 Books, Tests, and Supplies Total			\$77.00

#### Course Books and Supplies Totals

Electrical and Electronic Assembler Certificate Books and Supplies Total	<b>\$286.00</b>
Electrician Helper Certificate Books and Supplies Total	<b>\$330.00</b>
Maintenance Associate Diploma Books and Supplies Total	<b>\$600.00</b>
Maintenance Electrician Diploma Books and Supplies Total	<b>\$200.00</b>
Electro-Mechanical Technician Diploma Books and Supplies Total	<b>\$77.00</b>
<b><i>Electro-Mechanical Technology Program Books and Supplies Total</i></b>	<b><i>\$1493.00</i></b>
<b><i>Electro-Mechanical Technology Program Tuition Total</i></b>	<b><i>\$7435.00</i></b>
<b><i>Electro-Mechanical Technology Total Program Cost</i></b>	<b><i>\$8928.00</i></b>