

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	Customer Service Specialistst Study Guide	ETA	1-891749-08-0	\$24.00	
		CSS Certification Exam Fee (Provided)	ETA		\$0.00	
ELM-1014	Basic Math	None-Computer Based Instruction (Provided)	Nida		\$0.00	
ELM-1040	Computer Concepts I	Welcome to Computer Basics Microsoft Windows 11 Ed.	Labyrinth Learning	978-1-64061-522-9	\$50.00	
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	
432 Contact Hours			Trimester 1 Books, Tests, and Supplies Total		\$297.00	

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 05/07/2025

(effective Summer 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 2023 Text/Workbook Bundle	Goodheart-Wilcox	979-888-172-889	\$134.00	
ELM-2020	Commercial Wiring II	Model 9000 Commercial/Industrial Trainer Workbook	FutureTek	SM9000CW	\$62.00	
		Ugly's Electrical Reference Pocket Handbook 2020 Ed.	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 2020 Ed.	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	EM1 DC Certification Study Guide (Download only from ETA)	ETA		\$25.00	
		EM1 DC Certification Exam Fee (Provided)	ETA		\$0.00	
		DC CertTEC Certification Exam Fee (Provided)	CertTEC		\$0.00	
432 Contact Hours (864 Total Contact Hours)			Trimester 2 Books, Tests, and Supplies Total		\$355.00	

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	9781264446759	\$129.00	
	(Must be purchased online from McGraw-Hill Website)				
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 3rd Ed.	Good-Heart Willcox	978-1-64564-747-8	\$66.00	
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	
432 Contact Hours (1296 Total Contact Hours)			Trimester 3 Books, Tests, and Supplies Total \$475.00		

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	\$297.00
Electrician Helper Certificate Books and Supplies Total	\$355.00
Maintenance Associate Diploma Books and Supplies Total	\$475.00
Maintenance Electrician Diploma Books and Supplies Total	\$200.00
Electro-Mechanical Technician Diploma Books and Supplies Total	\$77.00
<i>Electro-Mechanical Technology Program Books and Supplies Total</i>	<i>\$1404.00</i>
<i>Electro-Mechanical Technology Program Tuition Total</i>	<i>\$7200.00</i>
 <i>Electro-Mechanical Technology Total Program Cost</i>	 <i>\$8604.00</i>