Electro-Mechanical Technology Courses and Booklist

Electro-Mechanical Technology Cour	ses and Booklist Electrical and Electronic Assembler	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 Specialitst 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 2nd Ed.	Labyrinth Learning	978-1-64061-206-8	\$72.00	
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	\$319.00	

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 08/06/2024 (effective Fall 2024)

Electro-Mechanical Technology Cours	ses and Booklist Electrician Helper	Prerequisite: Electr	isite: 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 2020	Goodheart-Wilcox	978-1-63563-875-2	\$144.00	
	Modern Commercial Wiring Workbook 2020	Goodheart-Wilcox	978-1-63563-876-9	\$38.00	
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	
132 Contact Hours (864 Total Contac	et Hours)	Trimester 2 Books	, Tests, and Supplies Total	\$403.00	

R ISBN 584196 978-155769-014-2 9781264446759	\$0.00 \$30.00 \$0.00 \$120.00 \$129.00	QTY
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9781264446759	\$129.00	
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llcox 978-1-64564-747-8	\$66.00	
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lectro-Mechanical Technology Courses and Booklist Maintenance Electrician Diploma		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 Conta	act Hours)	Trimester 4 Books	, Tests, and Supplies Total	\$200.00	

Electro-Mechanical Technology Courses and Booklist Electro-Mechanical Tech.Diploma		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 Conta	ontact Hours (2160 Total Contact Hours) Trimester 5 Books, Tests, and Supplies Total \$77.00				

Course Books and Supplies Totals

\$8674.00

\$319.00	Electrical and Electronic Assembler Certificate Books and Supplies Total
\$403.00	Electrician Helper Certificate Books and Supplies Total
\$475.00	Maintenance Associate Diploma Books and Supplies Total
\$200.00	Maintenance Electrician Diploma Books and Supplies Total
\$77.00	Electro-Mechancial Technician Diploma Books and Supplies Total
\$1474.00	Electro-Mechancial Technology Program Books and Supplies Total
\$7200.00	Electro-Mechancial Technology Program Tuition Total

Electro-Mechancial Technology Total Program Cost