

Northwest Louisiana Technical College

ELECTRICIAN-COMMERCIAL WIRING II

Program Description & Curriculum

The purpose of this program is to prepare individuals to install, maintain, troubleshoot, and repair electrical devices, components, and equipment. Graduates may find employment in industrial, residential, and commercial electrical professions.

Degrees/Certificates

Technical Diploma (TD)

Certificate of Technical Studies (CTS)

Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus.

Check with your local campus for more information.

CIP 460302

Electrician-Commercial Wiring II CURRICULUM				
Course #	Course Title	Lecture /Lab Hours	Credit Hours	Clock Hours
ORNT 1000	Freshman Seminar	1/0	1	15
ELEC 1120	Basic Electricity	2/4	6	150
ELEC 1210	Residential Wiring	2/4	6	150
TCA – Electrician Helper			13	315
ELEC 2460	Technical Mathematics for Electricians	1/1	2	45
ELEC 1220	Electrical Raceways	0/3	3	90
ELEC 1230	National Electrical Code	0/2	2	90
ELEC 1311	Residential Wiring Installation	1/5	6	165
ELEC 1430	Blueprint Interpretation	1/2	3	75
CPTR 1000	Introduction to Computers	1/1	2	45
JOBS 2450	Job Seeking Skills	2/0	2	30
Basic Electrical Core CTS – Residential Electrician			33	855
<i>Technical Diplomas in specialized areas require the completion of the basic core courses PLUS the completion of specialty courses listed in the following groups:</i>				
ELEC 1330	Generators/Motors and Transformer Operation	0/2	2	90
ELEC 1420	Introduction to Motor Controls	0/2	2	90
ELEC 1440	Motor Controls	0/3	3	135
ELEC 2520	Solid State Theory	1/2	3	75
ELEC 2540	Logic Functions	0/2	2	90
ELEC 2720	Introduction to Programmable Logic Controllers	0/2	2	90
TD – Industrial Electrician			47	1425
<i>ELEC 1330, 1420, 1440, 2520, 2540 plus</i>				
ELEC 2530	Marine Electricity	1/4	5	195
TD – Marine Electrician			50	1530
ELEC 2542	Electrical Work Based I	1/7	8	330
ELEC 2543	Electrical Work Based II	1/5	6	240
TD – Commercial Wiring I			47	1425
<i>ELEC 1330, 1420, 1440 plus</i>				
ELEC 1410	Commercial Wiring	1/4	5	195
TD – Commercial Wiring II			45	1365
<i>Optional Electives</i>				

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CSRV 1000	Customer Service	3/0	3	45
CSRV 2000	Customer Service & Sales	3/0	3	45
ENTP 1000	Foundations of Entrepreneurship	3/0	3	45
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications	1/2	3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
<i>With approval from the Chief Academic Officer/designee, the following courses may be substituted for any of the above course requirements.</i>				
ELEC 2991	Special Projects I	0/1	1	30
ELEC 2993	Special Projects II	0/2	2	60
ELEC 2995	Special Projects III	0/3	3	90
ELEC 2996	Special Projects IV	3/0	3	45
ELEC 2998	Special Projects V	1/0	1	15
ELEC 2997	Practicum	0/3	3	135
ELEC 2999	Cooperative Education	0/3	3	135
<i>Additional Exit Points</i>				
SOLR 1000	Solar Fundamentals	3/0	3	45
SOLR 1010	PV Solar Applications	1/2	3	75
SOLR 1020	Industrial Solar Applications	1/2	3	75
SOLR 1030	Solar Thermal Applications	1/2	3	75
TCA – ELEC: Solar Systems Installer			12	270
ELEC 1120	Basic Electricity	2/4	6	150
ELEC 1210	Residential Wiring	2/4	6	150
ELEC 2460	Technical Mathematics for Electrician	1/1	2	45
ELEC 1230	National Electrical Code	0/2	2	90
ELEC 1311	Residential Wiring Installation	1/5	6	165
ELEC 1420	Introduction to Motor Controls	0/2	2	90
<i>Above six courses plus SOLR 1000, 1010, and 1020</i>			CTS – ELEC: Energy Systems Technician	33
				885