

UTILITY TECHNICIAN Certificate

Minimum Credits: 36.0
Contact Hours: 48.5

INTRODUCTION: This two-semester program has been developed to meet the utility industry's need for trained, entry-level employees. It is the only college certificate program offered in Michigan designed specifically to prepare men and women to install and repair business and residential electrical, telephone, and telegraph transmission systems. Students complete 38 credit hours of practical theory and hands-on training using actual equipment and materials in classroom, laboratory, and field settings.

BASIC CERTIFICATE COURSES

COURSE	TITLE	CREDITS	CONTACT HOURS
APP 100E	Electrical Studies for Trades ^A	3.0	4.0
APP 106M	Industrial Safety ^A	0.5	0.5
MTH 110 or MTH 115	Technical Math I or Applied Algebra & Trigonometry I	3.0-5.0	4.0-6.0
PEH 263	Workplace First Aid/CPR/AED	1.0	1.0
SDE 201	Job Search Strategies	1.0	1.0
UTT 101	Introduction to the Utility Industry ^A	0.5	0.5
UTT 102	Climbing Elevated Work Sites ^A	1.0	1.0
UTT 103	Overhead Construction ^A	1.0	1.0
UTT 110	Line Mechanics Lab I	6.0	10.5
UTT 201	Test Equipment & Trouble Shooting ^A	1.0	1.0
UTT 202	Transformer Fundamentals ^A	2.0	3.0
UTT 203	Underground Construction ^A	2.0	2.0
UTT 204	System Design & Operations ^A	4.0	4.0
UTT 206	Equipment / Vehicle Operation ^A	2.0	3.0
UTT 207	Environmental Concerns of the Utility Industry ^A	1.0	1.0
UTT 208	Climbing & Working in Elevated Work Sites ^A	2.0	2.0
UTT 210	Utility / Line Mechanic Lab ^A	<u>5.0</u>	<u>9.0</u>
BASIC COURSES CREDITS/CONTACT HOURS:		36.0-38.0	48.5-50.0

ADVANCED CERTIFICATE COURSES

COURSE	TITLE	CREDITS	CONTACT HOURS
UTT 221	Lineworker Orientation ^A	1.5	12.0
UTT 222	Electric Basic Line Climbing ^A	4.0	6.0
UTT 223	Ground-Utility Worker ^A	5.0	8.0
UTT 224	Energized Secondary Worker ^A	<u>5.0</u>	<u>8.0</u>
ADVANCED CERTIFICATE CREDITS/CONTACT HOURS:		15.0	24.0

SUGGESTED SEQUENCING OF COURSES

YEAR 1 (FALL SEMESTER) <u>18.0-20.0</u> CREDITS		CREDITS	CONTACT HRS	YEAR 1 (SPRING SEMESTER) <u>18.0</u> CREDITS		CREDITS	CONTACT HRS
APP 106M Industrial Safety	0.5	0.5	UTT 201 Test Equip & Trouble Shooting	1.0	1.0		
APP 100E Electrical Studies for Trades	3.0	4.0	UTT 202 Transformer Fundamentals	2.0	3.0		
MTH 110 or MTH 115 Tech Math I or Appl Algebra & Trig I	3.0-5.0	4.0-6.0	UTT 204 System Design & Operation	4.0	4.0		
UTT 101 Intro to the Utility Industry	0.5	0.5	UTT 206 Equipment / Vehicle Operation	2.0	3.0		
UTT 102 Climbing Elevated Work Sites	1.0	1.0	UTT 207 Envir Concerns of Utility Indust	1.0	1.0		
UTT 103 Overhead Construction	1.0	1.0	UTT208 Climb&Work in Elev Work Sites	2.0	2.0		
UTT 110 Utility / Line Mechanics Lab	6.0	10.5	UTT 210 Utility / Line Mechanic Lab	5.0	9.0		
UTT 203 Underground Construction	2.0	2.0	PEH 263 Workplace First Aid/CPR/AED	<u>1.0</u>	<u>1.0</u>		
SDE 201 Job Search Strategies	<u>1.0</u>	<u>1.0</u>	TOTAL	18.0	24.0		
TOTAL	18.0-20.0	24.5-26.5					

NOTES:

^AIncluded in occupational specialty – GPA of 2.0 or higher must be maintained in the area of occupational specialty.

Students must be able to climb 40-foot power poles to successfully compete the first semester. Each student is expected to have: hard hat; lineman belt, safety strap, and climbers; rain wear; safety glasses; various hand tools required by the trade; and work shoes at an approximate cost of \$1,800.