

Industrial Electrical Technology Program Outcomes Crosswalk and 7-Year Assessment Plan

- IO1 **Communication:** Students will be able to communicate clearly and effectively within a workplace context
- IO2 **Quantitative Reasoning:** Students will be able to reason mathematically using methods appropriate to the profession
- IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork, ethics, appropriate safety awareness, and/or workplace specific skills related to human relations
- PO4 Students will be able to apply electronic principals to electro-maintenance activities
- PO5 Students will be able to install electrical/electronic apparatus using appropriate techniques
- PO6 Students will be able to access controls automation logic equipment for monitoring and troubleshooting purposes
- PO7 Students will be able to demonstrate proper mechanical techniques to assemble/disassemble activities
- PO8 Students will be able to fabricate simple fixtures as situations generally require

IST PROGRAM OUTCOME AND COURSE CROSSWALK

Course Prefix	Course	IO 1	IO 2	IO 3	PO 4	PO 5	PO 6	PO 7	PO 8
WLD 132	GAS TUNGSTEN ARC WELDING								X
BUS 120	HUMAN RELATIONS			X					
CMST 100	HUMAN COMMUNICATIONS	X							
ENGL 109	APPLIED TECH WRITING	X							
FAD 150	INDUSTRIAL FIRST AID			X					
MAP 103	APPLIED MATH		X						

IST 7-YEAR ASSESSMENT PLAN								
Course Prefix	Course	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
IST 100	INTRO TO SAFETY/HEALTH			IO3				
IST 102	TECH DRAW INTERPRETATION						IO1	
IST 105	BASIC ELECTRICITY - DC				PO4			
IST 106	BASIC ELECTRICITY - AC				PO4			
IST 107	INDUSTRIAL ELECTRICITY I				PO4	PO5		
IST 110	INTRO TO NATL ELECTRIC CODE				PO4	PO5		
IST 111	NATL ELECTRIC CODE II				PO4	PO5		
IST 112	NATL ELECTRIC CODE III				PO4	PO5		
IST 113	IND ELECTRICAL INSTALL TECH				PO4	PO5		
IST 120	INTRO TO PREVENT/PREDICT MAINTENANCE							PO7
IST 130	INTRO TO REFRIGERATION/AIR COND							PO7
IST 136	INTRO TO BOILER TECH							PO7
IST 141	INTRO TO MECHANIZED IRRIGATION	Not currently offered						
IST 142	MECHANIZED IRRIGATION APP II	Not currently offered						
IST 150	INTRO TO PLC						PO6	
IST 152	PROGRAMMABLE AUTO CONTROL						PO6	
IST 170	INTRO TO INSTRUMENTATION						PO6	
IST 180	MACHINING I							PO7/8
IST 182	MACHINING II							PO7/8
IST 184	MACHINING - SKILL ENHANCE							
IST 207	INDUSTRIAL ELECTRICITY II				PO4	PO5		
IST 208	INDUSTRIAL ELECTRICITY III				PO4	PO5		
IST 221	ELECTRONICS PRINCIPLES I				PO4	PO5		
IST 222	ELECTRONICS II				PO4	PO5		
IST 223	ELECTRONICS III INDUSTRIAL				PO4	PO5		
IST 270	INSTRUMENTATION II						PO6	
IST 280	MECHANICAL POWER TRANS							PO7
IST 282	FLUID POWER TRANS							PO7
IST 284	PUMPING HYDRAULICS/MECHANICS							PO7
IST 295/7	WORK-BASED LEARNING	Not currently offered						
WLD 111	WELDING PROCESS I							PO8

WLD 132	GAS TUNGSTEN ARC WELDING							PO8
BUS 120	HUMAN RELATIONS			IO3				
CMST 100	HUMAN COMMUNICATIONS	IO1						
ENGL 109	APPLIED TECH WRITING	IO1						
FAD 150	INDUSTRIAL FIRST AID			IO3				
MAP 103	APPLIED MATH		IO2					