MANUFACTURING CLUSTER

CIP 47.0000 - MAINTENANCE PATHWAY

COURSE CODES, DESCRIPTIONS & PRE-REQUISITES

Common Course Code	Working Title	Course Description	Pre-Requisite(s)	Course Level
38001 (.5 credit)	Intro. To Industrial Technology	An introductory level course designed to instruct students in the basic skills necessary to all occupations in the Construction, Manufacturing & Transportation areas.		Introductory
21108 (.5 credit)	Production Blueprint Reading	Provide students with the knowledge and ability to interpret the lines, symbols, and conventions of blueprints from a variety of industrial applications.		Introductory
39109 (.5 credit)	Maintenance Blueprint Reading	Provides students with the knowledge and skills to interpret the variety of drawings used in maintenance occupations including: blueprints, schematics, flow diagrams, and other trade prints.	Must be followed by an additional Technical Level Course	Technical
13205 (.5 credit)	Sheet Metal	Provides students with the knowledge and skills to layout and fabricate items created from sheet metal components.		Technical
39203 (.5 credit)	Machine Tool Technology 1a	A comprehensive course designed to instruct students in the basic theories, equipment and skills needed to perform machining activities for maintenance applications.		Technical
13208 (1 credit)	Maintenance Welding Processes	Provides students with the knowledge and skills to perform maintenance welding procedures including braze and torch welding and common pipe joint welding.		Technical
17009 (.5 credit)	Remodeling & Building Maintenance	Provides students with knowledge & skills needed to perform remodeling & maintenance procedures for wall, floor, window, door, electrical, HVAC, and plumbing, applications.		Technical

17052 (.5 credit)	Refrigeration Technology	Provides students with training in the theories, equipment and skills needed to install and		Technical
		maintain refrigeration systems.		
13302 (.5 credit)	Mechanical Power Transmission	Provides students with knowledge and skills		Technical
	& Conveyor Systems	needed to adjust, maintain, and repair parts of		
		machinery and equipment. Includes hydraulics,		
		pneumatics, gears, belt & chain drives, motors		
		and bearings.		
17113 (.5 credit)	Electrical & Security Systems	Provides students with the knowledge and	Remodeling & Building	Application
		skills needed to install, troubleshoot and	Maintenance	
		maintain electrical and security systems		
17056 (.5 credit)	HVAC Technology	Provides students with training in the theories,	Sheet Metal and/or	Application
		equipment and skills needed to install,	Refrigeration	
		troubleshoot and maintain HVAC systems.		
17058 (.5 credit)	Plumbing Technology	Provides students with training in the theories,	Remodeling & Building	Application
		equipment and skills needed to install,	Maintenance	
		troubleshoot and maintain plumbing systems.		
39302 (.5 credit)	Hydraulics & Pneumatics	Provides students with advanced knowledge	Mechanical Power	Application
		and skills in operating, maintaining and	Transmission & Conveyor	
		troubleshooting hydraulic & pneumatic	Systems	
		systems.		
13348 (.5 credit)	Work-Based Maintenance	An advanced level course that provides	A minimum of one additional	Application
	Experience	students with work-based experience,	Application Level Course.	
		supported by classroom attendance and		
		discussion, within their area of interest/study.		