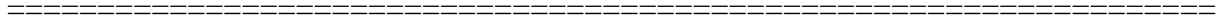


KALAMAZOO VALLEY COMMUNITY COLLEGE

RELATED TRADE INSTRUCTION

MILLWRIGHT



COURSES	DESCRIPTION	CONTACT HOURS	CREDIT HOURS
MATH 092	Basic Technical Math	48	3
MATH 106	Technical Math 1	64	4
MSM 102	Basics of Mechanical Tech	32	2
DRFT 105	Blueprint Reading	32	2
MACH 103	Fund of Machine Tool	128	4
MACH 105	Adv Machine Tool Op 1	112	3
ELT 102	Applied Electricity	96	4
MSM 120	Fluid Power I	48	2
WELD 120	Introduction to Welding	112	3
MACH 240	Machine Repair	32	2
	TOTAL HOURS	688	29

OPTIONAL:

DRFT 113	Arch Blueprint Reading	48	3
WELD 140	Shield Metal Arc Weld-Basic	112	3
WELD 142	Shielded Metal Arc Weld-Adv	112	3

Kalamazoo Valley Community College
Apprenticeship Department

SUGGESTED SCHEDULE OF WORK EXPERIENCE
For

MILLWRIGHT APPRENTICES

	<u>APPROXIMATE HOURS</u>
1. Dismantle, move and erect machinery and equipment	_____
2. Repair and rebuild pulleys, belting, conveyors, cranes, elevators and furnaces	_____
3. Repair and rebuild conveyor drives, speed reducers and reduction boxes	_____
4. Make floor layouts and install machinery and equipment	_____
5. Install electrical motors and equipment (not wiring)	_____
6. Repair and rebuild hoists and balancers	_____
7. Maintenance of equipment	_____
	Total _____

DESCRIPTION MILLWRIGHT

Installs machinery and equipment according to layout plans, blueprints, and other drawings in industrial establishment, using hoists, lift trucks, hand tools, and power tools: Reads blueprints and schematic drawings to determine work procedures. Dismantles machines, using hammers, wrenches, crowbars, and other hand tools. Moves machinery and equipment, using hoists, dollies, rollers, and trucks. Assembles and installs equipment, such as shifting, conveyors, and tram rails, using hand tools and power tools. Constructs foundation for machines, using hand tools and building materials, such as wood, cement, and steel. Aligns machines and equipment, using hoists, jacks, hand tools, squares, rules, micrometers, and plumb bobs. Assembles machines, and bolts, welds, rivets, or otherwise fastens them to foundation or their structures, using hand tools and power tools. May operate engine lathe to grind, file, and turn machine parts to dimensional specifications. May repair and lubricate machines and equipment. May install robot and modify its program, using teach pendant. May perform installation and maintenance work as part of team of skilled trades workers.