

MILLWRIGHT

Special Note:

Course Title	Base Program		Study Unit
	Course Number	Course Duration	
Trades Safety: Getting Started	186104	5 hours	Print
Basic Industrial Math	Block X31	30 hours	Print
Addition and Subtraction	186303	(5 hours)	Print
Multiplication and Division	186304	(5 hours)	Print
Fractions, Percents, Proportions, and Angles	186305	(5 hours)	Print
Metric System	186306	(5 hours)	Print
Formulas	186307	(5 hours)	Print
Introduction to Algebra	186308	(5 hours)	Print
Practical Measurements	Block X32	25 hours	Print
Linear and Distance Measurement	186125	(5 hours)	Print
Bulk Measurement	186126	(5 hours)	Print
Temperature Measurement	186127	(5 hours)	Print
Energy, Force, and Power	186128	(5 hours)	Print
Fluid Measurement	186129	(5 hours)	Print
Elements of Print Reading, Part 1	6719A	10 hours	Print
Reading Shop Prints	386043-386044	20 hours	Print
Precision Measuring Instruments, Part 1	186068	10 hours	Print
Precision Measuring Instruments, Part 2	186069	10 hours	Print
Layout	3501	10 hours	Print
Machine Safety	186110	(10 hours)	Print
Drilling	386050-386051	20 hours	Print
Basic Machining Skills	BlockX08	56 hours	Print
Practical Shop Math, Part 1	186116	(4 hours)	Print
Practical Shop Math, Part 2	186117	(4 hours)	Print
Practical Shop Measurement	X0803	(4 hours)	Print
Safe Shop Practices	X0804	(4 hours)	Print
Properties and Classifications of Metals	X0805	(4 hours)	Print
Progress Examination	X0821	(0 hour)	Print
Using Shop Drawings, Process, and Routing Sheets, Part 1	X0806	(4 hours)	Print
Using Shop Drawings, Process, and Routing Sheets, Part 2	X0807	(4 hours)	Print
Layout	X0808	(4 hours)	Print
Progress Examination	X0822	(0 hour)	Print
Metal Cutting and Machine Tooling, Part 1	X0809	(4 hours)	Print
Metal Cutting and Machine Tooling, Part 2	X0810	(4 hours)	Print
Metal Cutting Machinery, Part 1	X0811	(4 hours)	Print
Metal Cutting Machinery, Part 2	X0812	(4 hours)	Print
Fundamentals of Grinding	X0813	(4 hours)	Print
CNC Machine Tool Features and Applications	X0814	(4 hours)	Print
Progress Examination	X0823	(0 hour)	Print
Progress Examination Booklet	X0820	(0 hour)	Print

MILLWRIGHT PG2

Lathes, Part 1	386036	10 hours	Print
Lathes, Part 2	386037	10 hours	Print
Lathes, Part 3	386038	10 hours	Print
Fundamentals of Welding, Part 1	286025	10 hours	Print
Safety in Welding and Cutting	6154	10 hours	Print
Gas Welding Techniques	6276A-C	30 hours	Print
Common Thermal Cutting Processes	286028	10 hours	Print
Shielded Metal Arc Welding Techniques	286030 - 286031	20 hours	Print
Fabrication of Pipe by Welding	6278A-B	20 hours	Print
Fundamental Principles of Rigging Technology	286016	10 hours	Print
Planning the Rigging Operation	286017	10 hours	Print
Working with Rigging Tools, Part 1	286018	10 hours	Print
Working with Rigging Tools, Part 2	286019	10 hours	Print
Principles of Mechanics	286007 - 286008	20 hours	Print
Fluid Mechanics	286010 - 286012	30 hours	Print
Pumps	286001 - 286003	30 hours	Print
Hydraulic Fundamentals (Diesel and Automotive)	00J1	15 hours	Print
Hydraulic System Components (Diesel and Automotive)	00J2	15 hours	Print
Hydraulic System Maintenance (Diesel and Automotive)	00J3	15 hours	Print
Preventive Maintenance	286085	5 hours	Print
Preventive Maintenance Techniques	286086	5 hours	Print
Vibration Analysis and Control, Part 1	2511A	10 hours	Print
Air Compressors, Part 1	286096	10 hours	Print
Air Compressors, Part 2	286097	10 hours	Print
Mechanical Power Transmission Part 1	286101	10 hours	Print
Bearings and Seals	286093 - 286094	20 hours	Print
Industrial Plumbing and Pipefitting	Block D20	40 hours	Print
The Trades of Plumbing and Pipefitting	286040	(5 hours)	Print
Pipes, Fittings, and Valves	286041	(5 hours)	Print
Plumbing and Pipefitting Tools	286042	(5 hours)	Print
Joining and Assembling Pipes	286043	(5 hours)	Print
Supporting, Installing, and Testing Pipes	286044	(5 hours)	Print
Plumbing Fixtures and Appliances	286045	(5 hours)	Print
Tanks, Pumps, and Boilers	286046	(5 hours)	Print
Insulation for Piping and Ducting	286047	(5 hours)	Print

Estimated Total Curriculum Duration: 611 hours.
Number of Exams: 69

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