



Industrial Mechanic (Millwright)

Updated Module List 2024–2025

1st PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160101a	Safety Legislation, Regulations, and Industry Policy in the Trades	72	✓		1st Edition
160101bA	Climbing, Lifting, Rigging, and Hoisting: Part A	60	✓		1st Edition
160101bB	Climbing, Lifting, Rigging, and Hoisting: Part B	72	✓		1st Edition
160101bC	Climbing, Lifting, Rigging, and Hoisting: Part C	68	✓		1st Edition
160101bD	Climbing, Lifting, Rigging, and Hoisting: Part D	44	✓		1st Edition
160101c	Hazardous Materials and Fire Protection	48	✓		1st Edition
160101e	Communication	44			1st Edition
160102aA	Hand Tools: Part A	60	✓		1st Edition
160102aB	Hand Tools: Part B	80	✓		1st Edition
160102bA	Power Tools: Part A	76	✓		1st Edition
160102bB	Power Tools: Part B	68			1st Edition
160102cA	Fasteners: Part A	76	✓		1st Edition
160102cB	Fasteners: Part B	48	✓		1st Edition
160103aA	Measurement Tools: Part A	80	✓		1st Edition
160103aB	Measurement Tools: Part B	48	✓		1st Edition
160103bA	Technical Drawings: Part A	80			1st Edition
160103bB	Technical Drawings: Part B	72	✓		1st Edition
160103c	Layouts	72			1st Edition
160104a-bA (formerly 160104A)	Machining and Machining Operations: Part A	68	✓		1st Edition
160104a-bB (formerly 160104B)	Machining and Machining Operations: Part B	64			1st Edition



1st PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160104a-bC (formerly 160104C)	Machining and Machining Operations: Part C	88	✓		1st Edition
160105a	Grouting, Levelling, and Anchoring	52			1st Edition
160105b	Shaft Alignment	48	✓		1st Edition
TOTAL	23 MODULES	1488	16/23	0/23	

SUPPLEMENTARY MATH PACKAGE

NUMBER	NAME	PAGES	QA	DEV	VERSION
160106a	Working with Numbers	44			24
160106b	Fractions and Decimals	64			24
160106c	Algebra	20			24
160106d	Measurement and Conversions	60			24
160106e	Ratio and Proportion, Graphs and Tables	64			24
160106f	Introduction to Triangles and Trigonometry	52	✓		25
160106x	Math Formulas	36	✓		25
TOTAL	7 MODULES	340	2/7	0/7	

2nd PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160201a-cA	Bearings: Plain Bearings	68	✓		1st Edition
160201a-cB	Bearings: Anti-Friction Bearings	88	✓		1st Edition
160201a-cC	Bearings: Pillow Blocks and Seals	48	✓		1st Edition
160201a-cD	Bearings: Bearing Installation	76			1st Edition
160201a-cE	Bearings: Bearing Maintenance	76			1st Edition



2nd PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160201a-cF	Bearings: Bearing Calculations	44	✓		1st Edition
160201d	Lubricants	80			1st Edition
160201e	Lubrication Systems	72			1st Edition
160202aA	Oxy-Fuel Equipment: Part A	64	✓		1st Edition
160202aB	Oxy-Fuel Equipment: Part B	68	✓		1st Edition
160202b	Welding Symbols	40			1st Edition
160202c	Arc Welding Equipment	72	✓		1st Edition
160202d	Metallurgy	88	✓		1st Edition
160202e	Quality Control	36			1st Edition
160203a-bA	Power Transmission Systems and Components: Belts	80	✓		1st Edition
160203a-bB	Power Transmission Systems and Components: Chains & Sprockets	80	✓		1st Edition
160203a-bC	Power Transmission Systems and Components: Couplings, Clutches, and Brakes	88	✓		1st Edition
160203a-bD	Power Transmission Systems and Components: Gears	88	✓		1st Edition
160203a-bE	Power Transmission Systems and Components: Drives & Shafts	76	✓		1st Edition
160203c	Transmission of Force and Motion	88			1st Edition
160203d	Cross Dial Alignment	60	✓		1st Edition
160204a-dA	Process Pumps: Dynamic Pumps	60	✓		1st Edition
160204a-dB	Process Pumps: Dynamic Pump Operation	68			1st Edition
160204a-dC	Process Pumps: Positive Displacement Pumps	52			1st Edition
160204e-g	Mechanical Seals	68	✓		1st Edition
160204h	Compression Packing	44			1st Edition
TOTAL	26 MODULES	1772	16/26	0/26	



3rd PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160301a-cA	Compressors: Gas Laws and Compressor Types	68			1st Edition
160301a-cB	Compressors: Reciprocating Positive Displacement Compressor Components, Valves, and Pistons	84			1st Edition
160301a-cC	Compressors: Reciprocating Compressor Cylinders, Rod Packing, and Distance Pieces	72			1st Edition
160301a-cD	Compressors: Reciprocating Compressor Connecting Rods, Frames, and Crankshafts	64			1st Edition
160301a-cE	Compressors: Reciprocating Compressor Systems	80			1st Edition
160301a-cF	Compressors: Screw Compressors	52			1st Edition
160301a-cG	Compressors: Vane Compressors	48			1st Edition
160301a-cH	Compressors: Liquid Ring Compressors and Lobe Blowers	68			1st Edition
160301a-cl	Compressors: Dynamic Compressors	76			1st Edition
160302a-cA	Fluid Power Fundamentals	88			1st Edition
160302a-cB	Fluid Power Fundamentals: Calculations	64			1st Edition
160302b-cA	Hydraulic Components: Pressure, Directional, and Flow Control Valves	72			1st Edition
160302b-cB	Hydraulic Components: Stack, Cartridge, and Electro-Hydraulic Valves	52			1st Edition
160302b-cC	Hydraulic Components: Pumps	72			1st Edition
160302b-cD	Hydraulic Components: Actuators and Accessories	80			1st Edition
160302b-cE	Hydraulic Components: Fluids, Reservoirs, and Conductors	60			1st Edition
160302b-cF	Hydraulic Components: Contamination Control, Maintenance, and Troubleshooting	84			1st Edition
160302d-e	Pneumatic Components and Systems	84			1st Edition
160303a	Fans	84			1st Edition
160303b	Heat Exchangers	88			1st Edition
160303cA	Industrial Refrigeration: Part A	56			1st Edition



3rd PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160303cB	Industrial Refrigeration: Part B	56			1st Edition
160303d	Gas and Air Dryers	72			1st Edition
160304aA	Levelling: Part A	76			1st Edition
160304aB	Levelling: Part B	32			1st Edition
160304b	Laser Shaft Alignment	28			1st Edition
160304c	Bore Alignment	36			1st Edition
160304d	Pipe Strain	40			1st Edition
TOTAL	28 MODULES	1836	0/28	0/28	

4th PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160401aA	Stationary Engines: Part A	76		✓	1st Edition
160401aB	Stationary Engines: Part B	80		✓	1st Edition
160401bA	Stationary Engine Systems: Part A	84		✓	1st Edition
160401bB	Stationary Engine Systems: Part B	72		✓	1st Edition
160402aA	Steam Turbines: Part A	76		✓	1st Edition
160402aB	Steam Turbines: Part B	52		✓	1st Edition
160402b	Gas Turbines	76		✓	1st Edition
160402c	Governors	64		✓	1st Edition
160403aA	Process Piping Systems: Part A	64		✓	1st Edition
160403aB	Process Piping Systems: Part B	56		✓	1st Edition
160403b	Insulation	48		✓	1st Edition
160404aA	Condition Monitoring: Part A	72		✓	1st Edition
160404aB	Condition Monitoring: Part B	32		✓	1st Edition



4th PERIOD

NUMBER	NAME	PAGES	QA	DEV	VERSION
160404b	Balancing	72		✓	1st Edition
160404c	Advanced Alignment	72		✓	1st Edition
160404d	Analytical Troubleshooting	40		✓	1st Edition
160404e	Failure Analysis	60		✓	1st Edition
160405aA	Mechanical Systems and Electrical Control Components: Electricity Principles	60		✓	1st Edition
160405aB	Mechanical Systems and Electrical Control Components: Practical Electricity	72		✓	1st Edition
160405aC	Mechanical Systems and Electrical Control Components: Industrial Controls and Programmable Logic Controllers	68		✓	1st Edition
160405aD	Mechanical Systems and Electrical Control Components: Programmable Logic Controllers	52		✓	1st Edition
160406aA	Mechanical Material Handling: Belt Conveyors	56		✓	1st Edition
160406aB	Mechanical Material Handling: Chain, Screw and Bucket Conveyors	36		✓	1st Edition
160406aC	Mechanical Material Handling: Roller Conveyors	60		✓	1st Edition
160406b	Pneumatic Material Handling	32		✓	1st Edition
160406c	Emerging Technologies	32		✓	1st Edition
160406d	Maintenance Management	48		✓	1st Edition
160406e	Leadership Development	28		✓	1st Edition
160406f	Workplace Coaching Skills	28		✓	1st Edition
TOTAL	29 MODULES	1668	0/29	29/29	