



## Industrial Mechanic (Millwright) Publishing Notes 2022-23

### \*\*\* July Update\*\*\*

Following the initial publication release in June 2023, there is one additional publishing update for the Millwright ILMs. One of the old Period 2 modules, *160205a: Area, Volume, and Capacities*, has been updated to a new number and will continue to be available for ordering. The module number is now “A160205a: Area, Volume, and Capacities”, and is located in the **Additional Modules** section of the Millwright trade on the ILM website (separate from the MIL Period 2 standard package of modules).

Old Module Number	Module Title	New Module Number	Version
160205a	Area, Volume, and Capacities	A160205a	24

### Millwright First Period ILM Updates

#### *Quality Assurance and Maintenance*

For the 2022/23 year, the Millwright First Period ILMs received 25 maintenance edits impacting 10 different ILMs that were initially published in May 2022. The updated modules are listed in the *Module Updates* table below. We extend thanks to our stakeholder community for providing their feedback, and for supporting our content quality assurance process. We encourage your continued submission of ongoing feedback through the Comments page of the ILM website.

For more information on the ILM Comments and QA Maintenance process, please visit our website:

- ILM Maintenance : <https://www.ilmlearning.ca/ilm-maintenance>
- Comments: <https://www.ilmlearning.ca/comments>

#### *Climbing, Lifting, Rigging, and Hoisting Module*

Following the initial release of the *160101b: Climbing, Lifting, Rigging, and Hoisting* module set last year, it was identified that there were significant sections of content missing in the new publication. This module set has been corrected, updated, and validated. The new module set, consisting of the four modules listed in the tables below (160101bA, 160101bB, 160101bC, and 160101bD), now includes this previously missing content. We apologize for this error and oversight during last year’s development and publication.

### Millwright Second Period Development Project Complete

The Millwright Second Period content development project is complete. The outcomes, learning objectives and related content in the newly updated ILMs for second period are now aligned to the current Alberta course outline. The updated module numbers and names are listed in the *Module Updates* table below.

As part of our commitment to continuous improvement, we encourage you to utilize the ILM Comments page to provide feedback on the new Second Period modules.

### Remaining Millwright Development



The content development project to update ILMs in Millwright Periods 3 and 4, as well as modules in the Supplementary Math Package, is still in progress. The tentative timeline for completion of this remaining project work is May 2024.

While the Period 3 and Period 4 development project is in progress, the ILM office will maintain availability of some of the older Millwright ILM products that are still needed as an interim solution until all new modules are released. Due to the release of the new Second Period modules, some of these older, interim modules need to be renumbered to distinguish them from the new Period 2 modules. The content of these modules has not changed – we have only updated the module numbers to include “\_2013”, as per the following table.

2020 Outline – Period 3 Package			
Old Module Number	Module Title	New Module Number	Version
160203aA	Compressor Fundamentals - Part A	160203aA_2013	24
160203aB	Compressor Fundamentals - Part B	160203aB_2013	24
160203b	Compressor Valves	160203b_2013	24
160203cA	Compressor Cylinder Components - Part A	160203cA_2013	24
160203cB	Compressor Cylinder Components - Part B	160203cB_2013	24
160203d	Compressor Crosshead and Distance Piece Components	160203d_2013	24
160203e	Compressor Crankshaft and Frame Components	160203e_2013	24
160203f	Compressor Auxiliary Systems	160203f_2013	24
160203g	Compressor Overhaul and Start-Up Procedures	160203g_2013	24
160205c	Gas Laws and Coefficient of Linear Expansion	160205c_2013	24
2020 Outline – Period 4 Package			
Old Module Number	Module Title	New Module Number	Version
160201a	Gaskets and Piping	160201a_2013	25

### All-Trades Product Update

Due to changes resulting from the new [Skilled Trades and Apprenticeship Education Act](#), the content within **Alberta’s Industry Network** and **Apprenticeship Training Program** modules, are no longer valid. When the provincial apprenticeship system changes are final, these products will be updated accordingly. Until then, they are not available to order.

### Module Updates

1 <sup>st</sup> Period			
Module	Module Title	Category	Version
160101bA	Climbing, Lifting, Rigging and Hoisting: Part A	QA/Maintenance	25
160101bB	Climbing, Lifting, Rigging and Hoisting: Part B	QA/Maintenance	25
160101bC	Climbing, Lifting, Rigging and Hoisting: Part C	New Module	25



160101bD	Climbing, Lifting, Rigging and Hoisting: Part D	New Module	25
160101c	Hazardous Materials and Fire Protection	QA/Maintenance	25
160101d	Apprenticeship Training Program	DISCONTINUE	24
160102aA	Hand Tools: Part A	QA/Maintenance	25
160102aB	Hand Tools: Part B	QA/Maintenance	25
160102bA	Power Tools: Part A	QA/Maintenance	25
160102cA	Fasteners: Part A	QA/Maintenance	25
160103aA	Measurement Tools: Part A	QA/Maintenance	25
160103bA	Technical Drawing: Part A	QA/Maintenance	25
160103bB	Technical Drawing: Part B	QA/Maintenance	25
160104c	Machining and Machining Operations: Part C	QA/Maintenance	25
160105b	Shaft Alignment	QA/Maintenance	25
<b>2<sup>nd</sup> Period</b>			
Module	Module Title	Category	Version
160201a-cA	Bearings: Plain Bearings	New Module	25
160201a-cB	Bearings: Anti-Friction Bearings	New Module	25
160201a-cC	Bearings: Pillow Blocks and Seals	New Module	25
160201a-cD	Bearings: Bearing Installation	New Module	25
160201a-cE	Bearings: Bearing Maintenance	New Module	25
160201a-cF	Bearings: Bearing Calculations	New Module	25
160201d	Lubricants	New Module	25
160201e	Lubrication Systems	New Module	25
160202aA	Oxy-Fuel Equipment: Part A	New Module	25
160202aB	Oxy-Fuel Equipment: Part B	New Module	25
160202b	Welding Symbols	New Module	25
160202c	Arc-Welding Equipment	New Module	25
160202d	Metallurgy	New Module	25
160202e	Quality Control	New Module	25
160203a-bA	Power Transmission Systems and Components: Belts	New Module	25
160203a-bB	Power Transmission Systems and Components: Chains & Sprockets	New Module	25
160203a-bC	Power Transmission Systems and Components: Couplings, Clutches, and Brakes	New Module	25
160203a-bD	Power Transmission Systems and Components: Gears	New Module	25
160203a-bE	Power Transmission Systems and Components: Drives & Shafts	New Module	25
160203c	Transmission of Force and Motion	New Module	25
160203d	Cross Dial Alignment	New Module	25
160204a-dA	Process Pumps: Dynamic Pumps	New Module	25
160204a-dB	Process Pumps: Dynamic Pump Operation	New Module	25
160204a-dC	Process Pumps: Positive Displacement Pumps	New Module	25
160204e-g	Mechanical Seals	New Module	25
160204h	Compression Packing	New Module	25
<b>4<sup>th</sup> Period</b>			
Module	Module Title	Category	Version
160405d	Alberta's Industry Network	DISCONTINUE	24