



Steamfitter-Pipefitter Publishing Notes 2022-23

Steamfitter-Pipefitter Third Period Development Project

The Steamfitter-Pipefitter Third 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 curriculum guide. The updated module numbers and names are listed in the *Module Updates* table below.

Special Release Note: The ILM office is still finalizing four print files required for the Drawings Section in Steamfitter-Pipefitter 3rd Period. We expect the print files to be ready within the next couple of weeks and will release them via a follow-up communication as soon as they are available. We have updated the ILM website to include these modules on the Order Modules page, which will allow Programs and Bookstores to proceed with placing Steamfitter-Pipefitter ILM orders. ILM Printers, however, will need to wait until these four print files are released before they can process those orders. We apologize for this delay and thank you for your patience while we complete the final review of these modules. The four delayed modules are:

- 070305acA - Process Diagrams and Applied Piping Isometrics
- 070305acB - Drawing Exercises
- 070305acC - Specifications for Drawing Package
- DP070305ac - Drawing Package: Gas Battery

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

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>

Steamfitter-Pipefitter Fourth Period Development

The content development project to create new ILMs for Steamfitter-Pipefitter Period 4 is still in progress. There is currently only one published module, *070403d – Critical Lifts* (Version 24 published in 2022), for Period 4. The remainder of the modules are still in development. The tentative timeline for completion of this remaining project work is May 2024.

While the final Steamfitter-Pipefitter development project is in progress, the ILM office will maintain availability of older Steamfitter-Pipefitter ILM products aligned to the previous 2008 AIT curriculum guide, in addition to the new products being released that are aligned to the newest 2022 AIT curriculum guide. The file names for the older modules, aligned to the 2008 guide, have been renamed to include the year “2008” to both show this alignment and to distinguish them from other newer modules that are aligned to the 2022 guide. The content of these modules has not changed – we have only updated the module numbers to include “_2008”, as per the Module Updates table below.



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 – New Versions and New Releases

2 nd Period			
Module	Module Title	Category	Version
070203a	Lift Planning	QA/Maintenance	25
070203b	Fibre and Wire Rope	QA/Maintenance	25
070203c	Pulleys and Levers	QA/Maintenance	25
070203d	Slings and Hoisting Equipment Hardware	QA/Maintenance	25
070203e	Hoisting Communication	QA/Maintenance	25
070203f	Scaffolds and Access Equipment	QA/Maintenance	25
3 rd Period			
070301a	Low-Pressure Steam Boilers	New Module	25
070301b	Low-Pressure Steam Systems	New Module	25
070301c	Steam Properties and Gas Laws	New Module	25
070301dA	Boiler Piping and Trim: Part A	New Module	25
070301dB	Boiler Piping and Trim: Part B	New Module	25
070301e	Steam Traps	New Module	25
070301f	Water Treatment	New Module	25
070301g	Specialty Steam Equipment	New Module	25
070302aA	Control Systems: Part A	New Module	25
070302aB	Control Systems: Part B	New Module	25
070302b	Trade Related Technologies	New Module	25
070303a	SMAW Equipment	New Module	25
070303b	Weld Faults	New Module	25
070303c	Mild Steel Electrodes	New Module	25
070303d	Plasma Arc Cutting	New Module	25
070303e	Filler Metals and Shielding Gases	New Module	25
070303f	GMAW Equipment	New Module	25
070303g	GTAW Equipment	New Module	25
070304a	Hoist Planning	New Module	25
070304b	Lifting and Moving Equipment	New Module	25
070304c	Cranes	New Module	25
070305acA	Process Diagrams & Applied Piping Isometrics	New Module	25
070305acB	Drawing Exercises	New Module	25
070305acC	Specifications for Drawing Package	New Module	25
070305b	Compound Mitre Elbow	New Module	25
070305d	Builder's Level	New Module	25

070305e	Dummy Leg	New Module	25
DP-070305ac	Drawing Package: Gas Battery	New Module	25

Module Updates – Renumbered (Old) Steamfitter-Pipefitter Modules

1 st Period			
Old Module Number	Module Title	New Module Number	Version
070101a	Safety Guidelines	070101a_2008	21
070101b	Safe Work Practices	070101b_2008	21
070101c	Steamfitter - Pipefitter Apprenticeship Training Program Orientation	070101c_2008	21
070102a	Threaded Pipe	070102a_2008	21
070102b	Welded and Flanged Pipe and Fittings	070102b_2008	22
070102c	Ductile Iron, Glass and Fibreglass Pipe	070102c_2008	21
070102d	Tube and Tubing	070102d_2008	21
070102e	Valves	070102e_2008	21
070102f	Hangers and Supports	070102f_2008	21
070102g	Plastic Pipe	070102g_2008	21
070102h	Introduction to Pressure Testing	070102h_2008	22
070102i	Pipe Bending Theory	070102i_2008	21
070102j	Bolting, Fasteners and Tensioning	070102j_2008	22
070103a	Definitions	070103a_2008	21
070103b	Hydronic Heating Boilers	070103b_2008	21
070103c	Hydronic Heating Systems	070103c_2008	21
070104a	Hand Tools	070104a_2008	21
070104b	Power Tools	070104b_2008	21
070104c	Tube Bending and Grooved Pipe	070104c_2008	21
070104f	Fibre Rope, Wire Rope and Hand Rigging Equipment	070104f_2008	22
070104hA	Valve Servicing - Part A	070104hA_2008	22
070104hB	Valve Servicing - Part B	070104hB_2008	22
070104i	Mechanical Tee-Pull and Brazing	070104i_2008	21
070105a	Oxy-Fuel Equipment	070105a_2008	21
070105b	Brazing and Soldering	070105b_2008	21
070105c	Oxy-Fuel Cutting	070105c_2008	21
070105d	SMAW Equipment	070105d_2008	21
070105e	Weld Faults	070105e_2008	22
070105f	Mild Steel Electrodes	070105f_2008	21
070105g	Basic Joints and Weld Types	070105g_2008	21
070106a	Drawing Tools	070106a_2008	21
070106b	Introduction to Drawing	070106b_2008	21
070106c	Isometric and Oblique Drawings	070106c_2008	21
070106d	Line Pipe Drawings and Symbols	070106d_2008	22
070106e	Specifications and Blueprint Divisions	070106e_2008	21
070106f	Blueprint Views and Elevations	070106f_2008	21
070107a	Applied Mathematics	070107a_2008	21
070107b	Perimeters, Areas, Percentage and Grade	070107b_2008	21
070107c	Temperature and Heat Calculations	070107c_2008	21
070107d	Properties of Matter	070107d_2008	21
070107e	Pressure and the Atmosphere	070107e_2008	21



070107f	Temperature and Heat Science	070107f_2008	21
2nd Period			
070201a	Code Requirements	070201a_2008	21
070201b	Low-Pressure Steam Boilers	070201b_2008	21
070201c	Low-Pressure Steam Boiler Piping and Trim	070201c_2008	21
070201d	Cross-Connection Control Awareness	070201d_2008	21
070201e	Low-Pressure Steam Systems	070201e_2008	21
070201f	Installation and Servicing of Low-Pressure Steam Systems	070201f_2008	21
070201g	Heat Emission Units	070201g_2008	21
070201h	Steam Traps	070201h_2008	22
070201i	Boiler, Low Temperature Hot Water Piping and Trim	070201i_2008	21
070201j	Introduction to Pumps	070201j_2008	21
070201l	Expansion and Contraction Control	070201l_2008	21
070201m	Heat Loss Calculation	070201m_2008	21
070201n	Hydronic Heating and Cooling	070201n_2008	21
070201o	Hydronic Heating and Cooling: Pumps	070201o_2008	21
070201p	Heat Transfer Equipment and Piping	070201p_2008	21
070201q	Solar Heating Systems	070201q_2008	21
070201r	Water Treatment and Conditioning	070201r_2008	21
070201s	Methods of Water Treatment and Piping of Equipment	070201s_2008	21
070202a	Rigging Procedures: Planning, Weights, Jacks and Tuggers	070202a_2008	21
070202b	Rigging Procedures: Slings and Hoisting Equipment Hardware	070202b_2008	21
070202c	Rigging Procedures: Signals, Cranes and Hoists	070202c_2008	22
070202d	Rigging Procedures: Scaffolds, Man Baskets and Moving Equipment	070202d_2008	21
070203a	Introduction to GMAW Equipment	070203a_2008	21
070203b	GMAW Filler Metals, Shielding Gas and Safety	070203b_2008	21
070203c	GMAW Equipment Maintenance and Troubleshooting	070203c_2008	21
070203d	Shop/Lab Practices: GMAW Welds on Gauge and Thicker Mild Steel	070203d_2008	21
070203x	Slings and Hoisting Equipment Hardware	070203x_2008	22
070204a	Plastic and Lined Piping	070204a_2008	21
070204b	Fibreglass Reinforced Plastic Piping	070204b_2008	22
070204c	Alloy Piping	070204c_2008	22
070205a	Heat Tracing Valve Baskets	070205a_2008	21
070205b	Miter Elbow	070205b_2008	21
070205c	Eccentric Dummy Leg	070205c_2008	21
070205f	Levels	070205f_2008	21
070206a	Volumes and Capacities	070206a_2008	21
070206b	Steam Tables	070206b_2008	21
070206c	Piping Offsets	070206c_2008	21
070206d	Water Properties and Buoyancy	070206d_2008	21
070206e	Introduction to Electricity, Pulleys, Levers, Mechanical Advantage, Pressure and Flow	070206e_2008	21
070207a	Specifications and Exercises for Drawing Package #1	070207a_2008	21
070207b	Specifications for Drawing Package #2	070207b_2008	21
070207c	Exercises for Drawing Package #2	070207c_2008	21
070207d	Piping Isometrics	070207d_2008	21
070207e	Piping Spools	070207e_2008	21



070207f	Dummy Leg	070207f_2008	21
070207g	Stainless Steel Miter	070207g_2008	21
070207h	Piping Offsets and Serpentine Piping	070207h_2008	21
070207i	Sectioning a Circle and Drawing a Flange to Scale	070207i_2008	21
DP070207j	Drawing Package #1	DP070207j_2008	21
DP070207k	Drawing Package #2	DP070207k_2008	21
3 rd Period			
Old Module Number	Module Title	New Module Number	Version
070301a	Introduction to Refrigeration	070301a_2008	24
070301b	Basic Refrigeration Systems	070301b_2008	24
070301cA	Refrigeration and Basic HVAC Systems - Part A	070301cA_2008	24
070301cB	Refrigeration and Basic HVAC Systems - Part B	070301cB_2008	24
070302aA	Controls - Part A	070302aA_2008	24
070302aB	Controls - Part B	070302aB_2008	24
070303aA	Process Facilities - Part A	070303aA_2008	24
070303aB	Process Facilities - Part B	070303aB_2008	24
070303bA	Basic Requirements of Specialty Piping Systems - Part A	070303bA_2008	24
070303bB	Basic Requirements of Specialty Piping Systems - Part B	070303bB_2008	24
070303c	Basic Requirements of Specialty Systems	070303c_2008	24
070303d	Industrial Fire Protection Systems	070303d_2008	24
070304a	Quality Control	070304a_2008	24
070304b	Job Planning for New Construction	070304b_2008	24
070304c	Job Planning for a Maintenance Project	070304c_2008	24
070305a	Condensing Steam Plants	070305a_2008	24
070305b	Non-Condensing Steam Plants	070305b_2008	24
070305c	High Temperature Hot Water Plants	070305c_2008	24
070305d	High-Pressure Boilers and Accessories	070305d_2008	24
070305e	High-Pressure Boiler Trim	070305e_2008	24
070305f	High-Pressure Boiler Auxiliary Equipment	070305f_2008	24
070305g	Pressure Vessels	070305g_2008	24
070305h	Power Piping Auxiliary Equipment	070305h_2008	24
070305i	Power Piping Auxiliary Systems	070305i_2008	24
070305j	High-Pressure Steam Traps	070305j_2008	24
070305k	Cascading and Exhaust Steam Systems	070305k_2008	24
070305l	Pressure Reducing Valve Stations	070305l_2008	24
070305m	Specialty Steam Equipment and Heat Tracing	070305m_2008	24
070305n	Cooling Towers and Heat Exchangers	070305n_2008	24
070306a	Fabrication of Eccentric Reducing Tee	070306a_2008	24
070306b	Concentric Lateral Y Branch	070306b_2008	24
070306d	True Wye Project	070306d_2008	24
070307a	Trade Math	070307a_2008	24
070307b	Trade Science	070307b_2008	24
070308a	Applied Industrial Blueprint Reading	070308a_2008	24
070308b	Orthographics	070308b_2008	24
070308c	Schematics	070308c_2008	24
070308d	Piping Spools	070308d_2008	24
070308e	Rolling Offsets	070308e_2008	24
DP070308f	Hewes Booster Pump Station	DP070308f_2008	24
DP070308g	AAE Solvent Recovery Unit	DP070308g_2008	24



DP070308h	JL Gas Plant	DP070308h_2008	24
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