

Welder

Release Notes – June 2026

Program	Welder (WEL) - Period 1 to 3	Jump to section: → Curriculum Changes → Period 1 Modules → Period 2 Modules → Period 3 Modules
Release Date	June 26, 2026	
Guide Alignment	Apprenticeship and Industry Training (AIT) 2026 Guide	
Curriculum Comparison	AIT Curriculum Comparison 2014 to 2026	

Instructor Resources

Instructor PDFs and PowerPoint files will be automatically updated on the ILM file sharing platform for users with existing access—no action is required. If you require access, please complete the form [HERE](#).

Coming Soon

ILM is piloting AI-assisted test banks for these new modules, which will be available in the Instructor Resources folder by **August 7, 2026**. Please note that these resources have been generated with the assistance of AI and are intended to support instruction and exam preparation. Instructors should review and validate all content before use to ensure it aligns with their course outcomes and assessment requirements.

Digital Products Notice

Updated digital packages will be published on Campus eBookstore (CEI) **by July 15**. Digital products can be adopted by CEI Bookstores, or students can purchase via a direct link to CEI.

Standard Digital Packages	Custom Digital Packages
For programs using the full set of modules by period	For programs selecting specific modules
- Includes the full period of 2026 Guide aligned content - Aligned to the Alberta curriculum by trade and period - Includes the full collection of ILMs used in class	- Can be built when a program uses a selected set of modules rather than the full period or is using 2014 Guide content. - Existing Custom Digital packages using modules from WEL will be deactivated.
Standard packages are available for immediate purchase through Campus eBookstore (CEI)	Requests for new Custom Digital packages can be submitted HERE .

We're Here to Help with Digital Products

Do you have questions about digital format options for your students?

Please reach out to support@ilmlearning.ca for more information.

Curriculum Change Summary

The following overview highlights the key content changes made between the 2014 guide and the 2026 guide.

Content Added 2026 content includes new or expanded modules	• 120201b - Oxyfuel Cutting on Mild Steel Plate New 2026 module, related oxyfuel cutting content existed in 2014 but is now its own module. • 120201c - Other Processes New 2026 module covering robotics, laser welding, friction stir, and 3D printing. • 120302d - Applied Metallurgy and Metal Identification Expanded 2026 module that now includes metal identification content.
Content Combined Some 2014 modules were combined into one 2026 module or module series	• 120101h - Oxyfuel Equipment and 120101i - Oxyfuel Cutting These two 2014 modules were combined into one three-part 2026 module: 120101fA / fB / fC - Oxyfuel Equipment and Cutting • 120304dA / dB - Codes and Standards and 120304f - Interprovincial Standards Red Seal Program These three 2014 modules were combined into one three-part 2026 module: 120301aA / aB / aC - Codes, Standards, and Red Seal Certification
Content Separated Some 2014 modules were separated into more specific 2026 modules	• 120103h - Aluminum and Aluminum Welding This 2014 content is now available across: 120201f - Aluminum and Aluminum Welding <i>and</i> 120205a - GMAW on Aluminum • 120301c - SMAW and Oxyfuel Cutting on Mild Steel This 2014 module was separated into: 120301b - Oxyfuel Cutting on Mild Steel <i>and</i> 120304a - SMAW on Mild Steel
Content Removed Some 2014 content no longer appears as a standalone module in the 2026 curriculum guide	• 120102b – Electricity No standalone 2026 module. Related electricity content is included in: 120103a - SMAW Equipment <i>and</i> 120204a - The GTAW Process
For a detailed module-level review of where content now appears, please refer to the Curriculum Comparison.	

Period 1				
Number	Name	Section Name	Pages	Edition
120101a	Welder Apprenticeship Training Program Orientation	Foundational Skills, Safety, and Procedures	44	1st Edition
120101b	Safety Legislation, Regulations & Industry Policy in the Trades	Foundational Skills, Safety, and Procedures	100	1st Edition
120101c	Climbing and Material Handling: Lifting, Rigging, and Hoisting	Foundational Skills, Safety, and Procedures	100	1st Edition
120101d	Hazardous Materials & Fire Protection	Foundational Skills, Safety, and Procedures	44	1st Edition
120101e	Welding Safety	Foundational Skills, Safety, and Procedures	72	1st Edition
120101fA	Oxyfuel Equipment and Cutting: Part A	Foundational Skills, Safety, and Procedures	60	1st Edition
120101fB	Oxyfuel Equipment and Cutting: Part B	Foundational Skills, Safety, and Procedures	64	1st Edition
120101fC	Oxyfuel Equipment and Cutting: Part C	Foundational Skills, Safety, and Procedures	52	1st Edition
120101g	Weld Faults	Foundational Skills, Safety, and Procedures	56	1st Edition
120101h	Hand Tools	Foundational Skills, Safety, and Procedures	84	1st Edition
120101i	Power Tools	Foundational Skills, Safety, and Procedures	80	1st Edition

Period 1				
Number	Name	Section Name	Pages	Edition
120101j	Arc Cutting and Gouging	Foundational Skills, Safety, and Procedures	60	1st Edition
120102a	Weld Symbols	Drafting, Drawings, and Specifications	60	1st Edition
120102b	Fractions	Drafting, Drawings, and Specifications	88	1st Edition
120102c	Decimals	Drafting, Drawings, and Specifications	88	1st Edition
120102dA	Ratios, Percentages, and Measurement Systems: Part A	Drafting, Drawings, and Specifications	60	1st Edition
120102dB	Ratios, Percentages, and Measurement Systems: Part B	Drafting, Drawings, and Specifications	72	1st Edition
120102e	Geometric Formulas	Drafting, Drawings, and Specifications	100	1st Edition
120102f	Joint and Weld Types	Drafting, Drawings, and Specifications	44	1st Edition
120103a	SMAW Equipment	Shielded Metal Arc Welding (SMAW)	72	1st Edition
120103b	Mild Steel Electrodes	Shielded Metal Arc Welding (SMAW)	60	1st Edition
120103c	SMAW Fillet Welds on Mild Steel	Shielded Metal Arc Welding (SMAW)	68	1st Edition
120104a-bA	Wire Feed Welding Equipment Power Sources	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	76	1st Edition
120104a-bB	Wire Feed Welding Filler Metals and Feeders	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	68	1st Edition
120104c	Wire Feed Welding Shielding Gases	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	56	1st Edition
120104d	Wire Welding Maintenance and Troubleshooting	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	72	1st Edition
120104e	Submerged Arc Welding (SAW)	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	64	1st Edition
120104f	GMAW on Mild Steel	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	52	1st Edition
120104g	FCAW and MCAW on Mild Steel	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	72	1st Edition
29 Total Modules		Package Page Count: 1,988		

Period 2				
Number	Name	Section Name	Pages	Edition
120201a	Distortion	Foundational Skills, Safety, Procedures, and Property of Metals	48	1st Edition
120201b	Oxyfuel Cutting on Mild Steel Plate	Foundational Skills, Safety, Procedures, and Property of Metals	68	1st Edition
120201c	Other Processes	Foundational Skills, Safety, Procedures, and Property of Metals	76	1st Edition
120201d	Metal Identification	Foundational Skills, Safety, Procedures, and Property of Metals	60	1st Edition
120201e	Hardfacing	Foundational Skills, Safety, Procedures, and Property of Metals	64	1st Edition
120201f	Aluminum and Aluminum Welding	Foundational Skills, Safety, Procedures, and Property of Metals	56	1st Edition
120201g	Production of Metals	Foundational Skills, Safety, Procedures, and Property of Metals	40	1st Edition
120201h	Carbon and Alloy Steels and Alloy Steel Filler Metals	Foundational Skills, Safety, Procedures, and Property of Metals	68	1st Edition

Period 2				
Number	Name	Section Name	Pages	Edition
120202a	Drawing Interpretation	Drafting, Drawings, and Specifications	56	1st Edition
120202b	Pattern Development	Drafting, Drawings, and Specifications	80	1st Edition
120202c	Layout	Drafting, Drawings, and Specifications	56	1st Edition
120202d	Estimating Principles	Drafting, Drawings, and Specifications	52	1st Edition
120202e	Project Estimating	Drafting, Drawings, and Specifications	56	1st Edition
120203a	SMAW Groove Welds on Mild Steel	Shielded Metal Arc Welding (SMAW)	60	1st Edition
120204a	The GTAW Process	Gas Tungsten Arc Welding (GTAW)	96	1st Edition
120204b	GTAW Electrodes, Filler Metals and Shielding Gases	Gas Tungsten Arc Welding (GTAW)	64	1st Edition
120204c	GTAW Equipment Maintenance and Troubleshooting	Gas Tungsten Arc Welding (GTAW)	60	1st Edition
120204d	GTAW on Mild Steel	Gas Tungsten Arc Welding (GTAW)	92	1st Edition
120204e-f	GTAW on Aluminum and Stainless Steel	Gas Tungsten Arc Welding (GTAW)	56	1st Edition
120205a	GMAW on Aluminum	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	48	1st Edition
120205b	GMAW, FCAW and MCAW Groove Welds on Mild Steel	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	72	1st Edition
120205c	GMAW, FCAW and MCAW on Mild Steel Pipe	Gas Metal Arc Welding (GMAW), Flux-Cored Arc Welding (FCAW), Metal Cored Arc Welding (MCAW), and Submerged Arc Welding (SAW)	60	1st Edition
22 Total Modules		Package Page Count: 1,388		

Period 3				
Number	Name	Section Name	Pages	Edition
120301aA	Codes, Standards, and Red Seal Certification: Part A	Foundational Skills, Safety, and Procedures	32	1st Edition
120301aB	Codes, Standards, and Red Seal Certification: Part B	Foundational Skills, Safety, and Procedures	68	1st Edition
120301aC	Codes, Standards, and Red Seal Certification: Part C	Foundational Skills, Safety, and Procedures	44	1st Edition
120301b	Oxyfuel Cutting on Mild Steel	Foundational Skills, Safety and Procedures	28	1st Edition
120301c	Workplace Coaching Skills	Foundational Skills, Safety and Procedures	36	1st Edition
120302a	Heat Treatment	Properties of Metals	72	1st Edition
120302b	Stainless Steel	Properties of Metals	80	1st Edition
120302c	Nickel Alloys and Clad Steels	Properties of Metals	60	1st Edition
120302d	Applied Metallurgy and Metal Identification	Properties of Metals	60	1st Edition
120302e	Non-Destructive Testing	Properties of Metals	48	1st Edition
120302f	Destructive Testing	Properties of Metals	40	1st Edition
120303a	Structural Drawings	Drafting, Drawings, and Specifications	92	1st Edition
DP120303a	Drawing Package: Structural Drawings	Drafting, Drawings, and Specifications	26	1st Edition

Period 3				
Number	Name	Section Name	Pages	Edition
120303b	Pressure Vessel Drawings	Drafting, Drawings, and Specifications	84	1st Edition
DP120303b	Drawing Package: Pressure Vessel Drawings	Drafting, Drawings, and Specifications	42	1st Edition
120303c	Piping Drawings	Drafting, Drawings, and Specifications	80	1st Edition
DP120303c	Drawing Package: Piping Drawings	Drafting, Drawings, and Specifications	12	1st Edition
120304a	SMAW on Mild Steel	Shielded Metal Arc Welding (SMAW)	44	1st Edition
120304b	SMAW on Mild Steel Pipe	Shielded Metal Arc Welding (SMAW)	64	1st Edition
120305a	GTAW on Mild Steel Plate and Pipe	Gas Tungsten Arc Welding (GTAW)	84	1st Edition
20 Total Modules		Package Page Count: 1,098		