# ILM Publishing Report 2022: Welder

## Quality Assurance (QA) Maintenance Summary

The ILM office held a total of 23 QA Meetings in the 2021/22 academic year, which included over 90 attendees from 8 different institutions across Alberta. With support and feedback from these individuals, we were able to address and resolve over 700 maintenance comments across all ILM trades! We want to acknowledge each of the Programs and instructors that dedicated their time and effort to supporting this important maintenance work and express our gratitude for your support in our continuous improvement of ILM content for students and learners.

For Welder, there were 9 modules updated due to QA meeting maintenance, and a total of 16 maintenance comments were addressed. As part of this year’s ILM maintenance process, there were also a number of images and graphics within the ILMs reverted to a previous version. After significant consultation/feedback with Programs and stakeholders, the quality and accuracy of images and graphics from previous ILM versions was identified as being important for student learning and success. The *Maintenance Updates* column in the Module List section below indicates modules where this has occurred.

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

* ILM Maintenance: <https://ilm.nait.ca/ilm-maintenance>
* Comments: <https://ilm.nait.ca/comments>

QA Maintenance meeting dates for the 2022/23 academic year will be finalized and shared in September 2022.

## Brand Refresh

The 2022 ILM publication includes a brand refresh for all (English) ILM files. This brand refresh only impacts the style/format of ILM products. It does not impact the content within the ILMs. Changes for each ILM product type include updates to the front and back covers of ILM files, ILM Graphics PowerPoint template, and both student and instructor Digital ILM templates.

## Module List

\*Maintenance updates include image/graphic updates, addressing of website comments, and changes identified at annual Quality Assurance meetings.

### First Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version[[1]](#footnote-2)** | **Maintenance Updates\*** | **Rebrand Updates**  |
| 120101a | Safety Legislation, Regulations and Industry Policy in the Trades | 24.0 | ü | ü |
| 120101b | Climbing, Lifting, Rigging and Hoisting | 24.0 | ü | ü |
| 120101c | Hazardous Materials and Fire Protection | 24.0 |  | ü |
| 120101d | Alberta’s Industry Network | 24.0 | ü | ü |
| 120101e | Welding Safety | 24.0 | ü | ü |
| 120101f | Hand Tools | 24.0 | ü | ü |
| 120101g | Power Tools | 24.0 | ü | ü |
| 120101h | Oxyfuel Equipment | 24.0 | ü | ü |
| 120101i | Oxyfuel Cutting | 24.0 |  | ü |
| 120101j | Plasma Arc Cutting and Gouging | 24.0 |  | ü |
| 120101k | Materials Handling | 24.0 | ü | ü |
| 120102a | Drawing Interpretation | 24.0 | ü | ü |
| 120102b | Electricity | 24.0 |  | ü |
| 120102c | Metal Identification | 24.0 | ü | ü |
| 120102d | Heat Treatment | 24.0 |  | ü |
| 120102e | Joint and Weld Types | 24.0 | ü | ü |
| 120102f | Welding Symbols | 24.0 | ü | ü |
| 120102g | Distortion | 24.0 | ü | ü |
| 120102h | Weld Faults | 24.0 | ü | ü |
| 120102i | Hardfacing | 24.0 | ü | ü |
| 120103a | Wire Feed Welding Equipment Power Sources | 24.0 |  | ü |
| 120103b | Wire Feed Welding Filler Metals and Feeders | 24.0 | ü | ü |
| 120103c | Wire Feed Welding Shielding Gases | 24.0 |  | ü |
| 120103d | Wire Welding Maintenance and Troubleshooting | 24.0 | ü | ü |
| 120103e | GMAW on Mild Steel | 24.0 | ü | ü |
| 120103f | FCAW and MCAW on Mild Steel | 24.0 | ü | ü |
| 120103g | GMAW FCAW and MCAW Groove Welds on Mild Steel | 24.0 | ü | ü |
| 120103h | Aluminum and Aluminum Welding | 24.0 |  | ü |
| 120103i | GMAW on Aluminum | 24.0 | ü | ü |
| 120103j | GMAW FCAW and MCAW on Mild Steel Pipe | 24.0 | ü | ü |
| 120103k | Submerged Arc Welding (SAW) | 24.0 |  | ü |
| 120104a | Fractions | 24.0 | ü | ü |
| 120104b | Decimals | 24.0 | ü | ü |
| 120104c | Percentage and Ratios | 24.0 | ü | ü |
| 120104d | Geometric Formulas | 24.0 | ü | ü |
| 120104e | Metric and Imperial Measure | 24.0 | ü | ü |
| 120104f | Welder/Wire Process Operator Apprenticeship Training Program Orientation | 24.0 | ü | ü |

### Second Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version**1 | **Maintenance Updates\*** | **Rebrand Updates**  |
| 120201a | SMAW Equipment | 24.0 | ü | ü |
| 120201b | Mild Steel Electrodes | 24.0 | ü | ü |
| 120201c | SMAW Fillet Welds on Mild Steel | 24.0 | ü | ü |
| 120201d | Production of Metals | 24.0 | ü | ü |
| 120201e | Carbon and Alloy Steels and Alloy Steel Filler Metals | 24.0 | ü | ü |
| 120202a | The GTAW Process | 24.0 | ü | ü |
| 120202b | GTAW Electrodes, Filler Metals and Shielding Gases | 24.0 |  | ü |
| 120202c | GTAW Equipment and Troubleshooting | 24.0 | ü | ü |
| 120202d | GTAW on Mild Steel | 24.0 | ü | ü |
| 120202e | GTAW on Aluminum | 24.0 | ü | ü |
| 120202f | GTAW on Stainless Steel | 24.0 | ü | ü |
| 120203a | Pattern Development | 24.0 | ü | ü |
| 120203b | Layout | 24.0 | ü | ü |
| 120203c | Estimating Principles | 24.0 | ü | ü |
| 120203d | Project Estimating | 24.0 | ü | ü |
| 120204a | SMAW Groove Welds on Mild Steel | 24.0 | ü | ü |

### Third Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version**1 | **Maintenance Updates\*** | **Rebrand Updates**  |
| 120301a | Stainless Steel | 24.0 | ü | ü |
| 120301b | Nickel Alloys and Clad Steels | 24.0 | ü | ü |
| 120301c | SMAW and Oxyfuel Cutting on Mild Steel | 24.0 | ü | ü |
| 120302a | SMAW on Mild Steel Pipe | 24.0 | ü | ü |
| 120302b | GTAW on Mild Steel Plate and Pipe | 24.0 | ü | ü |
| 120303a | Structural Drawings | 24.0 | ü | ü |
| 120303b | Pressure Vessel Drawings | 24.0 | ü | ü |
| 120303c | Piping Drawings | 24.0 | ü | ü |
| 120304a | Non-Destructive Testing | 24.0 | ü | ü |
| 120304b | Destructive Testing | 24.0 | ü | ü |
| 120304c | Metallurgy for Practical Applications | 24.0 | ü | ü |
| 120304dA | Codes and Standards - Part A | 24.0 |  | ü |
| 120304dB | Codes and Standards - Part B | 24.0 | ü | ü |
| 120304e | Workplace Coaching Skills | 24.0 | ü | ü |
| 120304f | Interprovincial Standards Red Seal Program | 24.0 | ü | ü |
| DP120303a | Structural Drawings | 24.0 |  | ü |
| DP120303b | Pressure Vessel Drawings | 24.0 |  | ü |
| DP120303c | Piping Drawings | 24.0 |  | ü |

### Fourth Period

n/a

### Additional Modules

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version**1 | **Maintenance Updates\*** | **Rebrand Updates**  |
| A120101g | Oxyfuel Equipment | 24.0 | ü | ü |
| A120101h | Oxyfuel Welding, Brazing and Braze Welding | 24.0 | ü | ü |
| A120101i | Oxyfuel Cutting | 24.0 | ü | ü |
| A120102a | SMAW Equipment | 24.0 |  | ü |
| A120102b | Mild Steel Electrodes | 24.0 | ü | ü |
| A120102c | Basic Joints and Weld Types | 24.0 | ü | ü |
| A120102d | Shop/Lab Practices: SMAW Welds on Mild Steel Plate | 24.0 | ü | ü |
| A120103a | Gas Metal Arc Welding (GMAW) - Equipment | 24.0 | ü | ü |
| A120103b | GMAW Filler Metals, Shielding Gases and Safety | 24.0 | ü | ü |
| A120103c | GMAW Equipment Maintenance and Troubleshooting | 24.0 | ü | ü |
| A120202a | Introduction to the GTAW Process | 24.0 |  | ü |
| A120202b | GTAW Electrodes, Filler Metals and Shielding Gases | 24.0 |  | ü |
| A120202c | GTAW Equipment Maintenance and Troubleshooting | 24.0 | ü | ü |

1. ILMs are updated on a module-by-module basis; not all modules in a Period are updated within the same cycle, and a combination of different version numbers within a Period is normal. **However, every module has received a new version number for the 2022 publishing cycle to reflect their rebranding.** The most current, published version of each module will always be the version that is posted on the [Order Modules](https://ilm.nait.ca/order-modules) page of the ILM website. [↑](#footnote-ref-2)