# ILM Publishing Report 2022: Machinist

## 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 Machinist there were 7 modules updated due to QA meeting maintenance, and a total of 14 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** |
| 150101a | Safety Legislation, Regulations and Industry Policy in the Trades | 24.0 | ü | ü |
| 150101b | Climbing, Lifting, Rigging and Hoisting | 24.0 | ü | ü |
| 150101c | Hazardous Materials and Fire Protection | 24.0 |  | ü |
| 150101d | Oxy-Fuel Equipment Safety | 24.0 | ü | ü |
| 150101e | Layout Tools and Procedures | 24.0 |  | ü |
| 150101f | Hand-Held Cutting Tools | 24.0 | ü | ü |
| 150101g | Measuring Tools | 24.0 | ü | ü |
| 150101h | Angular Measuring Tools | 24.0 | ü | ü |
| 150101i | Screw Thread Terminology | 24.0 | ü | ü |
| 150101j | Screw Thread Measuring and Gauging | 24.0 | ü | ü |
| 150101k | Inspection Gauges | 24.0 | ü | ü |
| 150102a | Hand Grinding Machines | 24.0 | ü | ü |
| 150102b | Power Saws | 24.0 | ü | ü |
| 150102c | Speeds, Feeds and Cutting Tools | 24.0 | ü | ü |
| 150102dA | Drilling Machines - Part A | 24.0 | ü | ü |
| 150102dB | Drilling Machines - Part B | 24.0 | ü | ü |
| 150102e | Lathes | 24.0 | ü | ü |
| 150102f | Lathe Attachments and Accessories | 24.0 | ü | ü |
| 150102g | Lathe Operations | 24.0 | ü | ü |
| 150102h | Machine Lubrication and Cutting Fluids | 24.0 | ü | ü |
| 150102i | Introduction and Application of Computer Numerical Control (CNC) Turning Machines | 24.0 |  | ü |
| 150102j | Machine Co-ordinate Systems for CNC Turning Machines | 24.0 | ü | ü |
| 150102k | Parts and Workholding Accessories for CNC Turning Machines | 24.0 | ü | ü |
| 150102l | Set-Up and Operation for CNC Turning Machines | 24.0 | ü | ü |
| 150103a | Working with Numbers | 24.0 | ü | ü |
| 150103bA | Fractions and Decimals and Percentages - Part A | 24.0 | ü | ü |
| 150103bB | Fractions and Decimals and Percentages - Part B | 24.0 | ü | ü |
| 150103c | Algebra | 24.0 | ü | ü |
| 150103d | Measurement and Conversions | 24.0 | ü | ü |
| 150103e | Ratio and Proportion | 24.0 | ü | ü |
| 150103f | Taper Systems | 24.0 | ü | ü |
| 150103g | Introduction to Triangles and Trigonometry | 24.0 | ü | ü |
| 150104a | Introduction to Print Reading | 24.0 | ü | ü |
| 150104b | Dimensioning Methods | 24.0 | ü | ü |
| 150104c | Sections | 24.0 | ü | ü |
| 150104d | Isometric Drawings | 24.0 | ü | ü |
| 150104e | Surface Texture (Finish) - Turning | 24.0 | ü | ü |
| 150104f | Introduction to Geometric Dimensioning and Tolerancing | 24.0 | ü | ü |
| 150104g | Introduction to Limits and Fits | 24.0 | ü | ü |
| 150104i | Fasteners and Locking Devices | 24.0 | ü | ü |

### Second Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version1** | **Maintenance Updates\*** | **Rebrand Updates** |
| 150201a | Ferrous Metals | 24.0 | ü | ü |
| 150201b | Non-Ferrous Metals | 24.0 | ü | ü |
| 150201c | Metal Specifications and Testing | 24.0 | ü | ü |
| 150202a | Tool and Workholding Devices | 24.0 | ü | ü |
| 150202b | Milling Cutters | 24.0 | ü | ü |
| 150202c | Cutting Tool Materials | 24.0 | ü | ü |
| 150202d | Inserts and Tool Holders | 24.0 | ü | ü |
| 150203a | Milling Machines | 24.0 |  | ü |
| 150203b | Milling Operations | 24.0 | ü | ü |
| 150203c | Dividing Head and Indexing | 24.0 |  | ü |
| 150203d | Threading | 24.0 |  | ü |
| 150203e | Program and Machine Co-ordinate Systems for CNC Machining Centers | 24.0 | ü | ü |
| 150203f | Parts for CNC Machining Centers | 24.0 | ü | ü |
| 150203g | Programming Concepts and Codes for CNC Machining Centers | 24.0 | ü | ü |
| 150203h | Set-Up and Operation for CNC Machining Centers | 24.0 | ü | ü |
| 150203i | Process Planning | 24.0 |  | ü |
| 150204a | Applied Mathematics | 24.0 | ü | ü |
| 150204b | Applied Geometry | 24.0 | ü | ü |
| 150205a | Interpret and Sketch Prints | 24.0 | ü | ü |
| 150205b | Advanced Geometric Dimensioning and Tolerancing | 24.0 | ü | ü |
| 150205c | Surface Texture (Finish) - Milling | 24.0 | ü | ü |
| 150205d | Application of Limits and Fits | 24.0 | ü | ü |
| 150205f | Assembly and Sub-Assembly Drawings | 24.0 | ü | ü |

### Third Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version1** | **Maintenance Updates\*** | **Rebrand Updates** |
| 150301a | Codes and Formats | 24.0 | ü | ü |
| 150301b | Linear and Circular Interpolation | 24.0 | ü | ü |
| 150301c | Canned Cycles | 24.0 | ü | ü |
| 150301d | Multiple Repetitive Cycles | 24.0 | ü | ü |
| 150301e | Tool Nose Radius Compensation (TNRC) | 24.0 | ü | ü |
| 150301f | CNC Threading | 24.0 | ü | ü |
| 150301g | Programming CNC Threads | 24.0 | ü | ü |
| 150301h | Tool Measurements | 24.0 | ü | ü |
| 150301j | Multi-Axis Turning | 24.0 | ü | ü |
| 150302a | Gearing | 24.0 |  | ü |
| 150302b | Spur Gears | 24.0 | ü | ü |
| 150302c | Bevel Gears | 24.0 | ü | ü |
| 150302d | Helical Gears | 24.0 | ü | ü |
| 150302e | Gear Manufacturing Methods | 24.0 | ü | ü |
| 150302f | Multi-Start and Worm Threading | 24.0 | ü | ü |
| 150302g | Abrasives | 24.0 | ü | ü |
| 150302h | Grinding Machines | 24.0 | ü | ü |
| 150302i | Machine Broaching | 24.0 | ü | ü |
| 150302j | Splines | 24.0 | ü | ü |
| 150302k | Fixtures | 24.0 | ü | ü |
| 150303a | Applied Mathematics | 24.0 | ü | ü |
| 150303b | Trigonometry Applications | 24.0 |  | ü |
| 150303c | Advanced Limits and Fits | 24.0 | ü | ü |
| 150304c | Co-ordinate Measuring Machine Technology (CMM) | 24.0 | ü | ü |
| 150304d | Advanced Process Planning - Estimating | 24.0 |  | ü |

### Fourth Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version1** | **Maintenance Updates\*** | **Rebrand Updates** |
| 150401a | Codes and Formats | 24.0 | ü | ü |
| 150401b | Advanced Linear and Circular Interpolation | 24.0 |  | ü |
| 150401c | Canned Cycles | 24.0 |  | ü |
| 150401d | Program Applications for Canned Cycles | 24.0 |  | ü |
| 150401e | Cutter Compensation | 24.0 | ü | ü |
| 150401f | Programming Concepts and Applications | 24.0 |  | ü |
| 150401g | Set-Up and Operations | 24.0 | ü | ü |
| 150401h | Multi-Axis Milling | 24.0 |  | ü |
| 150402a | Boring Mills | 24.0 |  | ü |
| 150402b | Bearings and Seals | 24.0 |  | ü |
| 150402d | Specialized Manufacturing | 24.0 |  | ü |
| 150404a | Measuring, Gauges and Comparators | 24.0 | ü | ü |
| 150404b | Calibration of Measuring Tools | 24.0 | ü | ü |
| 150404c | Co-ordinated Measuring Machine (CMM) | 24.0 | ü | ü |
| 150404d | Workplace Coaching Skills | 24.0 | ü | ü |
| 150404e | Alberta’s Industry Network | 24.0 | ü | ü |
| 150404f | Interprovincial Standards Red Seal Program | 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)