# ILM Publishing Report 2022: Parts Technician

## 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 Parts Technician, there were 14 modules updated due to QA meeting maintenance, and a total of 42 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**  |
| 270101a | Safety Legislation, Regulations and Industry Policy in the Trades | 24.0 | ü | ü |
| 270101b | Climbing, Lifting, Rigging and Hoisting | 24.0 | ü | ü |
| 270101c | Hazardous Materials and Fire Protection | 24.0 |  | ü |
| 270101d | Environmental Protection | 24.0 | ü | ü |
| 270102a | Supply Chain, Material Handling Terminology and Receiving Documentation | 24.0 | ü | ü |
| 270102b | Receiving: Process and Track Incoming Material | 24.0 | ü | ü |
| 270102c | Stocking and Staging | 24.0 | ü | ü |
| 270102d | Material Storage | 24.0 | ü | ü |
| 270102e | Picking and Issuing | 24.0 | ü | ü |
| 270102f | Packing | 24.0 | ü | ü |
| 270102g | Shipping | 24.0 | ü | ü |
| 270102h | Product Returns | 24.0 | ü | ü |
| 270102i | Stock Maintenance | 24.0 | ü | ü |
| 270102j | Merchandising | 24.0 | ü | ü |
| 270102k | Material Handling Equipment | 24.0 | ü | ü |
| 270102l | Catalogues | 24.0 | ü | ü |
| 270103a | Measuring Calculations | 24.0 |  | ü |
| 270103b | Measuring Tools | 24.0 | ü | ü |
| 270103c | Bearings | 24.0 | ü | ü |
| 270103d | Seals | 24.0 |  | ü |
| 270103e | Electrical Fundamentals | 24.0 | ü | ü |
| 270103f | Electrical Circuits | 24.0 | ü | ü |
| 270103g | Battery Fundamentals | 24.0 | ü | ü |
| 270103h | Light-Duty Suspension Systems | 24.0 |  | ü |
| 270103i | Light-Duty Steering Systems | 24.0 |  | ü |
| 270103j | Wheels, Tires and Hubs | 24.0 | ü | ü |
| 270103k | Hydraulic Brake System Fundamentals | 24.0 |  | ü |
| 270103l | Hydraulic Drum Brake Systems | 24.0 | ü | ü |
| 270103m | Hydraulic Disc Brake Systems | 24.0 | ü | ü |
| 270103n | Hydraulic Brake Systems, Power Assist, Electric Brakes and Antilock Brake Systems | 24.0 | ü | ü |
| 270103o | Standard Stock | 24.0 | ü | ü |
| 270103p | Consumables | 24.0 |  | ü |
| 270104a | Science of Communication | 24.0 |  | ü |
| 270104b | Verbal Communication | 24.0 |  | ü |
| 270104c | Written Communication | 24.0 | ü | ü |
| 270104d | Conflict Resolution | 24.0 | ü | ü |
| 270104e | Customer Service | 24.0 | ü | ü |
| 270104f | Sales Techniques | 24.0 | ü | ü |

### Second Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version**1 | **Maintenance Updates\*** | **Rebrand Updates**  |
| 270201a | Engine Types, Applications and Designs | 24.0 | ü | ü |
| 270201b | Engine Blocks and Liners | 24.0 | ü | ü |
| 270201c | Pistons, Piston Rings and Connecting Rods | 24.0 |  | ü |
| 270201d | Crankshafts and Related Parts | 24.0 | ü | ü |
| 270201e | Camshafts and Related Parts | 24.0 | ü | ü |
| 270201f | Cylinder Heads and Related Parts | 24.0 | ü | ü |
| 270201g | Engine Cooling Systems | 24.0 |  | ü |
| 270201h | Engine Lubrication Systems | 24.0 |  | ü |
| 270201i | Exhaust Systems | 24.0 | ü | ü |
| 270201j | Air Induction Systems | 24.0 |  | ü |
| 270201k | Fuel Properties and Supply Systems | 24.0 |  | ü |
| 270201l | Gasoline Fuel Injection Systems | 24.0 |  | ü |
| 270201m | Diesel Fuel Injection | 24.0 | ü | ü |
| 270201n | Liquefied Petroleum Gas/Compressed Natural Gas Fuel Systems | 24.0 | ü | ü |
| 270201o | Emission Control Systems | 24.0 | ü | ü |
| 270201p | Catalytic Converters and Exhaust Gas Recirculation Systems | 24.0 | ü | ü |
| 270201q | Air Conditioning System Fundamentals | 24.0 | ü | ü |
| 270201r | Air Conditioning System Operation | 24.0 | ü | ü |
| 270202a | Chains, Sprockets, Belts and Pulleys | 24.0 | ü | ü |
| 270202b | Gearing Principles | 24.0 |  | ü |
| 270202c | Clutches | 24.0 | ü | ü |
| 270202d | Light-Duty Manual Transmissions | 24.0 | ü | ü |
| 270202eA | Heavy-Duty Manual Transmissions and PTOs - Part A | 24.0 | ü | ü |
| 270202eB | Heavy-Duty Manual Transmissions and PTOs - Part B | 24.0 | ü | ü |
| 270202f | Drivelines | 24.0 |  | ü |
| 270202g | Light-Duty Drive Axle Assemblies | 24.0 | ü | ü |
| 270202h | Heavy-Duty Drive Axle Assemblies | 24.0 | ü | ü |
| 270202i | All-Wheel Drive | 24.0 |  | ü |
| 270202j | Automatic Transmission Fundamentals | 24.0 | ü | ü |
| 270202k | Automatic Transmission Internal Operations | 24.0 | ü | ü |
| 270202l | Automatic Transmission Hydraulic Components | 24.0 | ü | ü |
| 270203a | Hydraulic Fundamentals | 24.0 | ü | ü |
| 270203b | Hydraulic System Components: Reservoir, Filters, Hoses and Coolers | 24.0 | ü | ü |
| 270203c | Hydraulic System Components: Pumps and Valves | 24.0 | ü | ü |
| 270203d | Hydraulic System Components: Cylinders, Motors and Accumulators | 24.0 | ü | ü |
| 270203e | Heavy-Duty Suspension Systems | 24.0 | ü | ü |
| 270203f | Heavy-Duty Steering Systems | 24.0 |  | ü |
| 270203g | Air Brakes: Fundamentals | 24.0 | ü | ü |
| 270203h | Air Brakes: Truck and Tractor | 24.0 |  | ü |
| 270203i | Air Brakes: Trailers | 24.0 | ü | ü |
| 270204a | Charging Systems | 24.0 | ü | ü |
| 270204b | Starter Motor Systems | 24.0 | ü | ü |
| 270204c | Ignition Systems | 24.0 | ü | ü |
| 270204d | Electrical Accessory Systems | 24.0 | ü | ü |
| 270204e | Auto Body Panel and Body Parts Identification | 24.0 | ü | ü |
| 270204f | Auto Body Glass and Restraint Systems | 24.0 | ü | ü |
| 270204g | Auto Body Reconditioning Materials | 24.0 |  | ü |
| 270204h | Tillage, Seeding, Spraying and Spreading Equipment | 24.0 |  | ü |
| 270204i | Forage and Harvesting Equipment | 24.0 |  | ü |
| 270204j | Tractors | 24.0 | ü | ü |
| 270204k | Mobile Industrial Equipment Identification | 24.0 | ü | ü |
| 270204l | Material Handling Equipment Identification | 24.0 | ü | ü |

### Third Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version**1 | **Maintenance Updates\*** | **Rebrand Updates**  |
| 270301a | Inventory Basics | 24.0 | ü | ü |
| 270301b | Inventory Classifications | 24.0 | ü | ü |
| 270301c | Inventory Costs | 24.0 | ü | ü |
| 270301d | Inventory Turnover | 24.0 | ü | ü |
| 270301e | Inventory Considerations | 24.0 | ü | ü |
| 270301f | Inventory Management | 24.0 | ü | ü |
| 270301g | Inventory Management Strategies | 24.0 | ü | ü |
| 270301h | Methods of Managing Inventory Stocking Levels | 24.0 | ü | ü |
| 270301i | Inventory Verification | 24.0 | ü | ü |
| 270302a | Purchasing | 24.0 | ü | ü |
| 270302b | Ethical and Legal Principles | 24.0 | ü | ü |
| 270302c | Purchase Analysis, Decision Making and Negotiation | 24.0 |  | ü |
| 270302d | Pricing | 24.0 |  | ü |
| 270303a | Planning and Design | 24.0 | ü | ü |
| 270303b | Parts Outlet Design | 24.0 |  | ü |
| 270303c | Warehouse Design | 24.0 | ü | ü |
| 270304a | Strategic and Operational Planning | 24.0 | ü | ü |
| 270304b | Financial Planning Strategies | 24.0 | ü | ü |
| 270304c | Financial Planning Assessment Tools | 24.0 |  | ü |
| 270304d | Financial Planning Measurements | 24.0 | ü | ü |
| 270304e | Quality Management | 24.0 | ü | ü |
| 270305a | Human Resource Management | 24.0 | ü | ü |
| 270305b | Human Resource Strategies | 24.0 | ü | ü |
| 270305c | Workplace Coaching Skills | 24.0 | ü | ü |
| 270305d | Alberta’s Industry Network | 24.0 | ü | ü |
| 270305e | Interprovincial Standards Red Seal Program | 24.0 | ü | ü |

### Fourth Period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version**1 | **Maintenance Updates\*** | **Rebrand Updates**  |
| 270401h | Lift Trucks | 24.0 | ü | ü |
| 270401i | Lift Truck Power Systems | 24.0 |  | ü |
| 270403a | Material Identification Technology | 24.0 | ü | ü |
| 270403b | Automotive Equipment (Power Train) | 24.0 | ü | ü |
| 270403c | Automotive Equipment (Chassis and Body) | 24.0 |  | ü |
| 270403d | Track Equipment | 24.0 | ü | ü |
| 270403e | Off-Highway Equipment | 24.0 |  | ü |
| 270403f | Tractors, Tillage Equipment Sprayers, and Spreaders | 24.0 | ü | ü |
| 270403g | Forage and Harvesting Equipment Components | 24.0 | ü | ü |
| 270403i | Oil and Gas Piping Components | 24.0 | ü | ü |
| 270403k | Tool Cribs | 24.0 | ü | ü |
| 270403l | Tool Crib Management | 24.0 | ü | ü |

### Additional Modules

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Module Number** | **Module Name** | **New Version**1 | **Maintenance Updates\*** | **Rebrand Updates**  |
| A270101a | Worksite Safety | 24.0 | ü | ü |
| A270101c | Personal Safety | 24.0 | ü | ü |
| A270101d | Hazard Assessment | 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)