

Carpenter Publishing Release Notes 2022-23



In 2022, ILM and the Alberta Carpenter programs implemented a pilot project titled ModuleWorks, where a selection of modules were elected for a full revision update. As a result of the collaboration with instructors the team successfully completed updates and validation reviews for 8 module booklets impacting 2nd, 3rd and 4th period content. For more detail refer to the table below.

Special Release Note

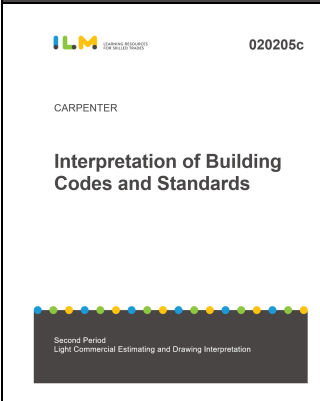
The ILM office is still finalizing five print files:

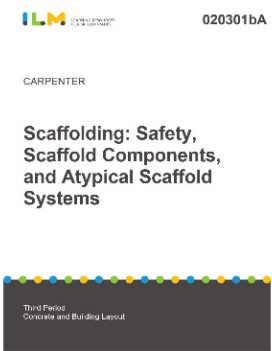
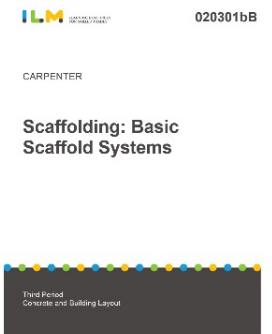

- 020301bA - Scaffolding: Part A
- 020301bB - Scaffolding: Part B
- 020403f - Energy Efficient Building Design
- 020403g - Energy Efficient Framing
- 020403h - Insulation and Air Barriers

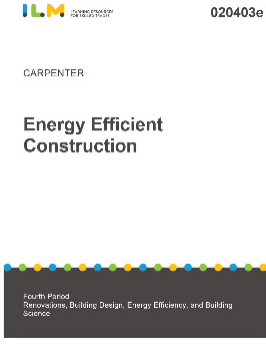
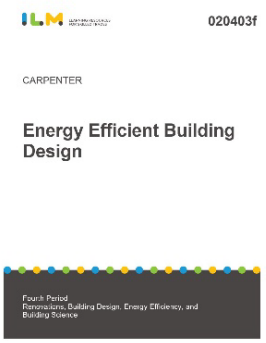
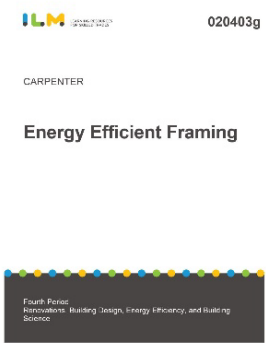
We expect the print files to be ready within the next couple of weeks and will release them via a follow-up communication as soon as they are available. We have updated the ILM website to include these modules on the [Order Modules](#) page, which will allow Programs and Bookstores to proceed with placing Carpenter ILM orders. **ILM Printers, however, will need to wait until these print files are released before processing orders.**

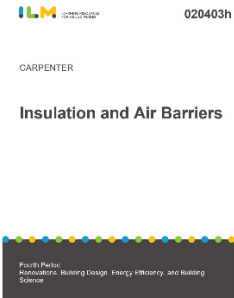
We apologize for this delay and thank you for your patience while we complete the final review of these modules.

Content notes for ModuleWorks are in the table below:

Product Cover	Topics/Objectives	Content Summary
 <p>020205c</p> <p>CARPENTER</p> <p>Interpretation of Building Codes and Standards</p> <p>Second Period Light Commercial Estimating and Drawing Interpretation</p>	<ol style="list-style-type: none"> 1. Describe the process of locating information in building codes and related documentation. 2. Interpret information from building codes and standards. 	<p>The National Building Code establishes standards for the construction, renovation, and upgrading of buildings to ensure public health and safety. It is a recommended model code written in an objective-based format and is enforced by local authorities. It includes administrative provisions, acceptable solutions, and requirements for structural materials, fire protection, occupant safety, accessibility, and environmental separation.</p>

Product Cover	Topics/Objectives	Content Summary								
 <p>ILM 020301bA</p> <p>CARPENTER</p> <p>Scaffolding: Safety, Scaffold Components, and Atypical Scaffold Systems</p> <p>Third Period Concrete and Building Layout</p>	<table border="1"> <thead> <tr> <th>Topic Section Title</th> <th>AIT Objectives</th> </tr> </thead> <tbody> <tr> <td>Safety and Scaffold Components</td> <td>2</td> </tr> <tr> <td>Atypical Scaffold Systems</td> <td>2, 3</td> </tr> </tbody> </table>	Topic Section Title	AIT Objectives	Safety and Scaffold Components	2	Atypical Scaffold Systems	2, 3	<p>This booklet provides information on the legal codes and regulations regarding scaffold safety in Canada, including the responsibilities of supervisors and scaffold builders, the importance of hazard identification and control, and the need to adhere to the manufacturer's specifications and local legislation. A field level hazard assessment (FLHA) must be completed on every jobsite, and all workers are responsible for ensuring a safe work environment. CSA standards provide criteria for the erection, use, and inspection of scaffolds, and knowledge of different scaffolding systems is crucial for worker safety.</p>		
Topic Section Title	AIT Objectives									
Safety and Scaffold Components	2									
Atypical Scaffold Systems	2, 3									
 <p>ILM 020301bB</p> <p>CARPENTER</p> <p>Scaffolding: Basic Scaffold Systems</p> <p>Third Period Concrete and Building Layout</p>	<table border="1"> <thead> <tr> <th>Topic Section</th> <th>AIT Objectives</th> </tr> </thead> <tbody> <tr> <td>Basic Scaffold Systems</td> <td>1, 2, 3</td> </tr> </tbody> </table>	Topic Section	AIT Objectives	Basic Scaffold Systems	1, 2, 3	<p>This booklet provides information on components, types, and safety requirements. It emphasizes the importance of using compatible parts and following manufacturer specifications to ensure a safe work environment while working at heights. The content also addresses the need for fall protection and proper installation of guardrails.</p>				
Topic Section	AIT Objectives									
Basic Scaffold Systems	1, 2, 3									
 <p>ILM 020401J</p> <p>CARPENTER</p> <p>Wood Finishing</p> <p>Fourth Period Workshop Organization and Inter. Finishes</p>	<table border="1"> <thead> <tr> <th>Topic Sections</th> <th>AIT Objectives Covered</th> </tr> </thead> <tbody> <tr> <td>Surface preparation</td> <td>Describe surface preparation for wood finishes.</td> </tr> <tr> <td>Application Methods</td> <td>Describe methods of applying wood finishes.</td> </tr> <tr> <td>Finishing Products</td> <td>Describe wood finishing products. Describe methods of applying wood finishes.</td> </tr> </tbody> </table>	Topic Sections	AIT Objectives Covered	Surface preparation	Describe surface preparation for wood finishes.	Application Methods	Describe methods of applying wood finishes.	Finishing Products	Describe wood finishing products. Describe methods of applying wood finishes.	<p>This module provides guidance on surface preparation for wood finishes, including sanding procedures, adhesive removal, and dealing with defects and discoloration. It emphasizes the importance of using proper techniques to avoid spreading contaminants and causing marks on the wood surface, and warns against using wet cloths to remove wet glue. The document also cautions against reproducing or transmitting its contents without prior permission from the publishers, and notes that there may be instances where the information contained within is not current.</p>
Topic Sections	AIT Objectives Covered									
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Application Methods	Describe methods of applying wood finishes.									
Finishing Products	Describe wood finishing products. Describe methods of applying wood finishes.									

Product Cover	Topics/Objectives	Content Summary
 <p>ILM LEARNING RESOURCES 020403e</p> <p>CARPENTER</p> <p>Energy Efficient Construction</p> <p>Fourth Period Renovations, Building Design, Energy Efficiency, and Building Science</p>	<ol style="list-style-type: none"> 1. Describe the evolution of Canadian energy-efficient construction practices. 2. Describe energy rating and certification systems. 3. Describe the building sciences applicable to energy efficient construction. 4. Identify the economics of low-energy-consumption buildings. 	<p>This module discusses the evolution of energy-efficient construction practices in Canada over the past 80 years. It covers changes in heating, insulation, sheathing, foundations, exterior finishes, and construction tools and processes, with a focus on the R-2000 program and other energy rating and certification systems. The content notes that modern houses are far superior to those of the past in terms of energy efficiency, environmental impact, occupant comfort, security, durability, and maintenance. It also emphasizes the importance of understanding a house as a system and staying current on evolving building methods and products.</p>
 <p>ILM LEARNING RESOURCES 020403f</p> <p>CARPENTER</p> <p>Energy Efficient Building Design</p> <p>Fourth Period Renovations, Building Design, Energy Efficiency, and Building Science</p>	<ol style="list-style-type: none"> 1. Identify energy efficiency factors affecting the design process. 2. Describe the principles of space conditioning. 3. Identify methods and equipment used to satisfy energy efficient heating, ventilation, and air conditioning (HVAC) requirements. 4. Describe alternative energy sources and emerging technologies. 	<p>This module discusses the importance of planning heating and ventilation systems in conjunction with building design to achieve energy efficiency and net zero energy consumption. It highlights the use of alternative energy generation, such as photovoltaic panels and air source heat pumps, as well as passive solar heating and proper ventilation. The content also points out societal changes that impact building construction practices, including the need for more energy-efficient and environmentally responsible approaches, accessible designs for the elderly and people with disabilities, and affordable housing options.</p>
 <p>ILM LEARNING RESOURCES 020403g</p> <p>CARPENTER</p> <p>Energy Efficient Framing</p> <p>Fourth Period Renovations, Building Design, Energy Efficiency, and Building Science</p>	<ol style="list-style-type: none"> 1. Describe methods of constructing energy efficient wall and floor systems. 2. Describe methods of constructing energy efficient roof systems. 	<p>This module discusses factors that influence the drying rate of wall systems, such as the permeability of the exterior sheathing, the number and location of joints, the length of the drying season, and the relative humidity. It also provides information on constructing energy-efficient wall systems, selecting a wall system based on climate and performance requirements, and ensuring proper insulation installation. The document emphasizes the importance of preventing moisture-related problems, using framing techniques to enhance building performance, and meeting the requirements for exterior walls, which must resist external forces, heat flow, air movement, and water migration.</p>

Product Cover	Topics/Objectives	Content Summary
 <p>020403h</p> <p>CARPENTER</p> <p>Insulation and Air Barriers</p>	<ol style="list-style-type: none"> 1. Describe insulation materials. 2. Describe insulation installation methods. 3. Describe materials and assembly methods for air barrier systems. 	<p>This module discusses insulation materials and their important characteristics, including moisture content, gas content, density, and thermal resistance. Various types of insulation materials, such as batt, loose fill, boardstock, spray, and radiant barriers, are described along with their advantages and disadvantages. The importance of proper installation practices is emphasized, and the need for fire-protective covering of combustible materials is highlighted. The content also discusses the increasing number of materials and methods used to control heat loss and moisture movement in buildings, and the impact of insulation materials on indoor air quality.</p>

QA Maintenance and Other ILM Product Updates

In addition to the changes in ModuleWorks, maintenance comments were resolved impacting additional modules in 2022.

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>

***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.

The table below lists all new modules impacted by QA maintenance edits, the above all-trades modules discontinuation and moduleworks into one summary.

1 st Period					
#	Booklet Number	Module Title	Change Notes	Category	Version
1	020101e	Apprenticeship Training Programs	Content no longer accurate.	Discontinue	24
2	020102f	Pneumatic and Fuel-Powered Tools	QA Maintenance comment(s) addressed.	QA Maintenance	25

2 nd Period					
3	020202aB	Roof Framing Systems Part B	Image/Graphic fixes completed in QA Maintenance.	QA Maintenance	25
4	020204aB	Single and Multi-flight Stairs	QA Maintenance comment(s) addressed.	QA Maintenance	25
5	020205c	Interpretations of Building Codes and Standards	Updated and Validated content.	ModuleWorks	25
3 rd Period					
6	020301bA	Scaffolding: Safety, Scaffold Components and Atypical Scaffold Systems	Updated and Validated content.	ModuleWorks	25
7	020301bB	Scaffolding: Basic Scaffold Systems	Updated and Validated content.	ModuleWorks	25
8	020304c	Commercial Concrete Structures Material Takeoffs	Maintenance comment(s) addressed.	QA Maintenance	25
9	020304g	Interior Systems Calculations	Maintenance comment(s) addressed.	QA Maintenance	25
4 th Period					
10	020401j	Wood Finishing	Updated and validated content.	ModuleWorks	25
11	020401b	Alberta's Industry Network	Content no longer accurate.	Discontinue	24
12	020403d	Barrier-Free Design and Ergonomics	Maintenance comment(s) addressed.	QA Maintenance	25
13	020403e	Energy Efficient Design	Updated and Validated content.	ModuleWorks	25
14	020403f	Energy Efficient Building Design	Updated and validated content.	ModuleWorks	25
15	020403g	Energy Efficient Framing	Updated and Validated content.	ModuleWorks	25
16	020403h	Insulation and Air Barriers	Updated and Validated content.	ModuleWorks	25

Discontinued Modules and title changes:

AIT (65) All Trades Discontinued Modules					
1	*650101d	Apprenticeship Training Program	Content no longer accurate.	Discontinued	24
2	*650401a	Alberta's Industry Network	Content no longer accurate.	Discontinued	24
Discontinued Module Number and Title:			Replacement Module Number and Title:		
020301bA: Scaffolding – Part A 020301bB: Scaffolding – Part B			020301bA: Safety, Scaffold Components and Atypical Scaffold Systems 020301bB: Basic Scaffold Systems		
020403gA: Energy Efficient Framing - Part A 020403gB: Energy Efficient Framing - Part B			020403g: Energy Efficient Framing		