

Title:	Mechanical Insulating, Level 1
Edition:	2
Publication Date:	2018, reissued in 2019
Additional Instructor Requirement(s):	None
Prerequisite(s):	Core
Previous Edition Expiration Date:	www.nccer.org/expiration s



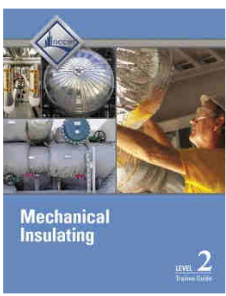
Book Module Number	Module Name	1 st Edition Mod ID #	2 nd Edition Mod ID #	2 nd Edition Hours	1 st Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
---	---	---	---	72.5	72.5	---	---	• Core, 5 th edition
1	Orientation to the Trade	19101-18	19101	5	5	19101 (1E) 19101-18	No	• New title; Formerly called <i>Orientation</i> • Added information about the type of materials used in the industry/tools of the trade.
2	Material Handling, Storage, and Distribution	19104-18	19104	2.5	2.5	19104 (1E) 19104-18	No	
3	Characteristics of Pipe	19105-18	19105	5	5	19105 (1E) 19105-18	No	• New title: Formerly called <i>Characteristics of Pipe Insulation</i>
4	Plumbing Systems	19209-18	19209	7.5	5	19209 (1E) 19209-18	No	• Moved from Level 2
5	Chilled and Hot Water Heating Systems	19210-18	19210	5	5	19210 (1E) 19210-18	No	• Moved from Level 2
6	Installing Fiberglass Pipe Insulation	19106-18	19106	30	30	19106 (1E) 19106-18	Yes	• Added information about vapor retarders.
7	Insulating Pipe Fittings, Valves, and Flanges	19107-18	19107	40	40	19107 (1E) 19107-18	Yes	• Related to fiberglass
Deleted	Trade Relations	19102			7.5			
Deleted	Tools of the Trade	19103			7.5			
				Total Hours	167.5	165		

Definitions:

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Color Highlight Legend:

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- = Deleted

	Title:	Mechanical Insulating, Level 2
	Edition:	2
	Publication Date:	2019
	Additional Instructor Requirement(s):	None
	Prerequisite(s):	None
	Previous Edition Expiration Date:	www.nccer.org/expirations



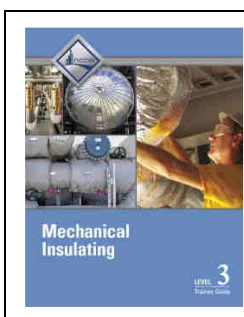
Book Module Number	Module Name	1 st Edition Mod ID #	2 nd Edition Mod ID #	2 nd Edition Hours	1 st Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	Construction Drawings and Specifications	19309	19309	12.5	12.5	19309 (1E)	Yes	• Moved from level 3
2	Trade Math and Layout	---	19212	7.5	---	---	No	• NEW MODULE
3	Heat Transfer	19303	19303	2.5	2.5	19303 (1E)	No	• Moved from level 3
4	Flexible Foam Insulation	19201	19201	25	32.5	19201 (1E)	Yes	• New title; Formerly called <i>Installing Flexible Foam Insulation</i> • Includes pipe equipment and duct
5	Air Duct Systems	19302	19302	7.5	5	19302 (1E)	No	• Moved from level 3
6	Blanket Insulation for Ducts	19202	19202	7.5	7.5	19202 (1E)	Yes	• New title; Formerly called <i>Installing Blanket Insulation for Ducts</i>
7	Board Insulation for Ducts	19203	19203	20	20	19203 (1E)	Yes	• New title; Formerly called <i>Installing Board Insulation for Ducts</i>
8	Cements and Fabric Finishes	19208	19208	10	10	19208 (1E)	Yes	• New title; Formerly called <i>Cement and Fabric Finishes & Mastics</i>
9	Insulation Adhesives	19304	19304	5	2.5	19304 (1E)	No	• New title; Formerly called <i>Adhesives and Their Uses</i> • Moved from level 3
10	Vapor Retarders and Insulation Coatings	---	19211	10	---	---	Yes	• NEW MODULE
11	Steam and Process Water Systems	19305	19305	10	5	19305 (1E)	No	• New title; Formerly called <i>Steam, Condensate, and Process Water Systems</i> • Moved from level 3
12	Calcium Silicate/Expanded Perlite Pipe Insulation	19204	19204	20	15	19204 (1E)	Yes	• New title; Formerly called <i>Installing Calcium Silicate/Expanded Perlite Pipe Insulation</i>
13	Rigid Foam and Cellular Glass Insulation	19206	19206	12.5	20	19206 (1E)	Yes	• New title; Formerly called <i>Installing Rigid Foam Insulation</i>
14	Industrial Boiler Systems	19306	19306	7.5	10	19306 (1E)	No	• New title; Formerly called <i>Large Boilers, Breechings, Precipitators, and Apparatus</i> • Moved from level 3
15	Mineral Wool Insulation	19205	19205	12.5	12.5	19205 (1E)	Yes	• New title; Formerly called <i>Installing Mineral Wool Insulation</i>
				Total Hours	170	155		

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Book Module Number	Module Name	1 st Edition Mod ID #	2 nd Edition Mod ID #	2 nd Edition Hours	1 st Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments	
1	Board and Block Insulation	19207	19207	17.5	17.5	19207 (1E)	Yes	<ul style="list-style-type: none"> New title; Formerly called <i>Installing Board and Block Insulation</i> Moved from level 2 Add info on vapor retarder mastics and jackets on cold tanks 	
2	Sheet-Metal Lagging	19312	19312	15	12.5	19312 (1E)	Yes	<ul style="list-style-type: none"> Update/improve trade term definitions 	
3	Jacketing Systems	---	19313	12.5	---	---	Yes	<ul style="list-style-type: none"> NEW MODULE. Includes two performance tasks moved from module 19310-18. 	
4	Jacketing Fabrication-Pipe and Fittings	19310	19310	42.5	42.5	19310 (1E)	Yes	<ul style="list-style-type: none"> Update materials for current practices Add illustrations to support geometric descriptions Add better written directions 	
5	Jacketing Fabrication-Vessels and Equipment	19311	19311	25	40	19311 (1E)	Yes	<ul style="list-style-type: none"> Update graphics and illustrations, especially for gores Review and updated trade term definitions 	
6	Removable and Reusable Flexible Insulation Covers	---	19314	12.5	---	---	Yes	<ul style="list-style-type: none"> NEW MODULE. Includes content and performance tasks on how to fabricate and install removable/reusable insulation covers. 	
7	Specialized Insulation Systems	19308	19308	5	5	19308 (1E)	No	<ul style="list-style-type: none"> Add information to include sound (acoustic) insulation, grease duct, plenum wrap 	
8	Fundamentals of Crew Leadership	MT101	46101	22.5	16	46101-17 46101-11	Yes	<ul style="list-style-type: none"> Committee elected to add this lockdown module in place of Trade Relations. 	
Deleted	Trade Math	19301	---	---	7.5			<ul style="list-style-type: none"> New math module developed for level 2 (19212-18) 	
Deleted	Refrigeration and Cryogenic Systems	19307	---	---	2.5				
				Total Hours	152.5	143.5			

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