	Title:	Instrumentation, Level 1
	Edition:	3
	Publication Date:	2014
	Additional Instructor Requirement(s):	None
	Prerequisite(s):	Core
	Previous Edition Expiration Date:	www.nccer.org/expirations



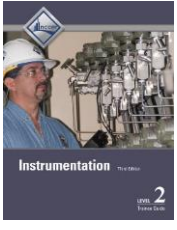
Book Module Number	Module Name	2 nd Edition Mod ID #	3 rd Edition Mod ID #	3 rd Edition Hours	2 nd Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
---	---	---	---	77.5	72.5	---	---	• Core, 6 th edition
1	Instrumentation Safety Practices	26102-11	12115-14	12.5	10	---	Yes	• 26102-11 Electrical Safety modified for Instrumentation
2	Hand and Power Tools for Instrumentation	12101-01/ 12103-01	12114-14	12.5	22.5	---	Yes	• Combines 12101 and 12103
3	Craft-Related Mathematics	12201-03	12119-14	10	15	---	No	• Originally 12201; Moved from L2
4	Instrument Drawings and Documents, Part One	12107-03	12107-14	7.5	20	---	Yes	• Originally 12202; Moved from L2
5	Inspect, Handle, and Store Instrumentation Materials	12304-03	12304-14	2.5	2.5	---	Yes	• Moved from Level 3, formerly called <i>Receive, Inspect, Handle, and Store Instrumentation</i>
6	Electrical Systems for Instrumentation	03106-13	12116-14	12.5	12.5	---	Yes	• Based on 03106-13 Basic Electricity
7	Fasteners	12106-01	12106-14	7.5	7.5	---	Yes	
8	Gaskets, O-Rings, and Packing	12108-01	12108-14	10	7.5	---	Yes	• Added content about O-Rings
9	Lubricants, Sealants, and Cleaners	12109-01	12109-14	7.5	7.5	---	Yes	
10	Tubing	12111-01	12111-14	15	12.5	---	Yes	
11	Steel Piping Practices	03105-13	12117-14	10	10	03105-13	Yes	• 03105-13 Basic Carbon Steel Piping Practices modified for Instrumentation
12	Hoses	12113-01	12113-14	7.5	7.5	---	Yes	
Deleted	Metallurgy for Instrumentation	12105-01	---	---	7.5	---		
Deleted	Orientation to the Trade	12118-14	---	---	2.5	---		
			Total Hours	192.5	217.5			

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Color Highlight Legend:

- = No Performance Test
- = Lock-Down Module
- = Equivalent Module
- = Deleted

	Title:	Instrumentation, Level 2
	Edition:	3
	Publication Date:	2015
	Additional Instructor Requirement(s):	None
	Prerequisite(s):	None
	Previous Edition Expiration Date:	www.nccer.org/expirations



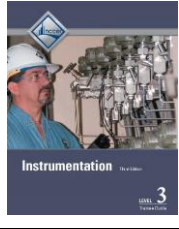
Book Module Number	Module Name	2 nd Edition Mod ID #	3 rd Edition Mod ID #	3 rd Edition Hours	2 nd Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	Temperature, Pressure, Level, and Flow	12110-01	12110-15	15	10	---	Yes	• Formerly called Flow, Pressure, Level, and Temperature.
2	Instrument Fitter's Math	12301-03	12301-15	12.5	20	---	No	• Moved from Level 3.
3	Instrument Drawings and Documents, Part Two	12202-03	12202-15	17.5	20	---	Yes	
4	Test Equipment	---	33205-10	10	---	---	Yes	
5	Panel-Mounted Instruments	12212-03	12212-15	10	7.5	---	Yes	
6	Installing Field-Mounted Instruments	12213-03	12213-15	25	25	---	Yes	
7	Raceways for Instrumentation	12214-03	12214-15	17.5	17.5	---	Yes	
8	Clean, Purge, and Test Tubing and Piping Systems	12303-03	12303-15	10	10	---	Yes	• Moved from Level 3.
9	Protective Measures for Instrumentation	12308-03	12308-15	20	20	---	Yes	• Moved from Level 3.
10	Layout and Installation of Tubing and Piping Systems	12302-03	12302-15	35	45	---	Yes	• Moved from Level 3.
11	Instrument Air Filters, Regulators, and Dryers	12210-03	12210-15	7.5	7.5	---	Yes	• Formerly called Filters, Regulators, and Dryers.
Deleted	Principles of Welding for Instrumentation	12203-03	---	---	10			• The committee decided that this module would not be beneficial to Instrument Fitters and Techs.
			Total Hours	180	192.5			

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	Title:	Instrumentation, Level 3
	Edition:	3
	Publication Date:	2016
	Additional Instructor Requirement(s):	None
	Prerequisite(s):	None
Previous Edition Expiration Date:	www.nccer.org/expirations	



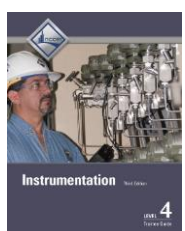
Book Module Number	Module Name	2 nd Edition Mod ID #	3 rd Edition Mod ID #	3 rd Edition Hours	2 nd Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	Control Valves, Actuators, and Positioners	12207-03	12207-16	15	15	---	Yes	• Moved from L2
2	Detectors, Secondary Elements, Transducers, and Transmitters	12205-03	12205-16	25	20	---	Yes	• Moved from L2
3	Instrumentation Electrical Circuitry	12305-03	12305-16	25	25	---	Yes	• Regular Comments [Regular Text. Can use bullets or paragraph-style.]
4	Relays and Timers	12208-03	12208-16	10	7.5	---	Yes	• Moved from L2
5	Switches and Photoelectric Devices	12209-03	12209-16	10	5	---	Yes	• Moved from L2
6	Terminating Conductors	12307-03	12307-16	20	20	---	Yes	
7	Grounding and Shielding of Instrumentation Wiring	12306-03	12306-16	10	10	---	Yes	
8	Process Control Theory	12204-03	12204-16	25	20	---	Yes	• Moved from L2
9	Controllers	12206-03	12206-16	10	10	---	Yes	• Moved from L2; formerly called Controllers, Recorders, and Indicators
Deleted	Analyzers and Monitors	12211-03	---	---	5			• Moved to level 4 and combined with 12408-15 (Analyzers)
			Total Hours	150				

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	Title:	Instrumentation, Level 4
	Edition:	3
	Publication Date:	2016
	Additional Instructor Requirement(s):	None
	Prerequisite(s):	None
	Previous Edition Expiration Date:	www.nccer.org/expirations



Book Module Number	Module Name	3 rd Edition Mod ID #	4 th Edition Mod ID #	4 th Edition Hours	3 rd Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
1	Instrument Calibration and Configuration	12402-03	12402-16	60	65	---	Yes	
2	Proving, Commissioning, and Troubleshooting a Loop	---	12410-16	17.5	---	---	Yes	• Combined Performing Loop Checks (12403-03) and Troubleshooting and Commissioning a Loop(12404--03) to make 12410-16
3	Tuning Loops	12405-03	12405-16	15	15	---	Yes	
4	Digital Logic Circuits	12401-03	12401-16	15	10	---	Yes	
5	Programmable Logic Controllers	12406-03	12406-16	12.5	10	---	Yes	
6	Distributed Control Systems	12407-03	12407-16	15	10	---	Yes	
7	Analyzers and Monitors	---	12409-16	30	---	---	Yes	• Moved Analyzers and Monitors (12211) and combined with Analyzers (12408-03)
Deleted	Performing Loop Checks	12403-03	---	---	7.5			• Combined to make it 12410-16
Deleted	Troubleshooting and Commissioning a Loop	12404-03			10			• Combined to make it 12410-16
Deleted	Analyzers	12408-03			20			
Total Hours				165	147.5			

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Color Highlight Legend:

- = No Performance Test
- = Lock-Down Module
- = Equivalent Module
- = Deleted

INSERT BOOK COVER PHOTO HERE	Title:	Book Title, Level #
	Edition:	[use a number only; do NOT include the "st", "th", or "rd" suffix]
	Publication Date:	[Year of publication]
	Additional Instructor Requirement(s):	[If none, then list "None".]
	Prerequisite(s):	[Level 1 usually lists "Core" as a prerequisite. If none, then list "None".]
	Previous Edition Expiration Date:	www.nccer.org/expirations



Book Module Number	Module Name	2 nd Edition Mod ID #	3 rd Edition Mod ID #	2 nd Edition Hours	3 rd Edition Hours	Equivalent Registry Module(s)	Performance Profile	Comments
---	---	---	---	77.5	72.5	---	---	• Core, 6 th edition [be sure to put edition number]
1	Module Title Here	99101-11	99101	25	20	99101-11	Yes	• ELECTIVE [all caps, bold, and highlighted; on its own line]
2	Telecommunications	99102-11	99102	35	30	99102-11	No	• Interim Credential – Life Safety and Security [bold; on its own line]
3	Miscommunication	---	98404-15	30	---	---	Yes	• Regular Comments [Regular Text. Can use bullets or paragraph-style.]
								• NEW MODULE
								•
								•
								•
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								•
Deleted	Module Title	99103-11	---	---	15			
			Total Hours					

Commented [ES1]: Change edition numbers as appropriate, then delete this comment.

Commented [ES2]: Add three dashes to a cell where no information is needed or provided, then delete this comment.

Commented [ES4]: Only use if a previous edition module is being deleted from the new edition. Delete this row if not needed.

Commented [ES5]: Total hours for new and previous edition will need to be manually summed. Then delete this comment.

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- = Lock-Down Module
- = Equivalent Module
- = Deleted