



Title:	Electronic Systems Technician, Level 3
Edition:	4
Publication Date:	2021
Additional Instructor Requirement(s):	None
Prerequisite(s):	None
Previous Edition Expiration Date:	Levels 1-3, 3rd Edition, will expire 06/30/2025



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	Limited Energy Cabling	33108-10	33108	20	20	33108-10	Yes	<ul style="list-style-type: none"> New title Moved from 3rd Edition Level 1 of EST Updated photos to reflect newer technologies. Revised NEC code. Updated to reflect shift from Cat 5e to Cat 6 and Cat 7 cable. More on fiber optic cable. Removed obsolete cabling.
2	Limited-Energy Cable Selection	33208-10	33208	10	10	33208-10	Yes	<ul style="list-style-type: none"> New title Moved from 3rd Edition Level 2 of EST. Revised the names of cable insulation. Updated references to old cable categories.
3	Limited-Energy Cable Termination	33209-10	33209	25	25	33209-10	Yes	<ul style="list-style-type: none"> New title Moved from 3rd Edition Level 2 of EST. Update to reflect current technology.
4	Limited-Energy Network Installations	33301-11	33301	25	25	33301-11	Yes	<ul style="list-style-type: none"> New title Updated and expanded information on Power over Ethernet (PoE). Added information on Wi-Fi and Bluetooth and updated information on protocols, base-band networks BUS topology, network security, anti-virus software, Internet Protocols, Ethernet, and operating systems.
5	Fiber Optics	33302-11	33302	25	25	33302-11	Yes	<ul style="list-style-type: none"> New information about Power over Fiber (PoF). Revised information regarding signal loss for different wavelengths. Revised Mechanical Considerations related to reflect more up-to-date approaches to terminating fiber optic cable.
6	Wireless Communication	33303-11	33303	15	10	33303-11	No	<ul style="list-style-type: none"> Changes made to Wireless Computing Networks to emphasize newer ways of networking systems through the internet. Added section on the spectrum analyzer.
7	Site Survey, Project Planning, and Documentation	33304-11	33304	15	15	33304-11	Yes	<ul style="list-style-type: none"> The use of drones in site layout has been added to this module. Aspects of IoT have also been added as it relates to online forms and documents used in site layout.
8	Rack Assembly	33305-11	33305	17.5	17.5	33305-11	Yes	<ul style="list-style-type: none"> Revised many illustrations to show better grounding and bonding connections, and updated photos of outdated equipment such as VCRs, etc. Added information on Arc Fault CI and GFCI.
9	System Commissioning and User Training	33306-11	33306	20	20	33306-11	Yes	<ul style="list-style-type: none"> Added information from NFPA 3, NFPA 31, and NFPA 681.
10	Maintenance and Repair	33307-11	33307	20	20	33307-11	Yes	<ul style="list-style-type: none"> Updated illustrations. Changed all references to 2020 version of NEC®.
	Fundamentals of Crew Leadership	46101-11	DELETE	---	20	---	---	---
			Total Hours	192.5	207.5			

Definitions:

Lock-Down Module: A module adopted “as-is” from another craft or an earlier edition of the same curriculum.

Equivalent Module: A module whose learning and performance outcomes match those of the newer editions and is therefore considered ‘equivalent’ in NCCER’s Registry.

Interim Credential: A module, or group of modules, whose learning and performance outcomes demonstrates competence of specific components in an occupational area and results in a unique credential in the Registry.

Color Highlight Legend:

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