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| RocketCert, LLC9111 Cross Park DriveBld D Suite 244Knoxville, TN 37923800-495-6612 | **Course Objectives**The purpose of this eight (8) hour electrical continuing education course is to provide the licensee with a better knowledge and understanding of key concepts and regulations within the 2021 NFPA 70E. This course will improve the safety and regulation compliance of electrical licensees. After completing this course, the learner will be able to apply safety concepts within their electrical profession. |
|  | **Course Outline**2020 NEC Changes* Part 1
	+ 90.1 Purpose.
	+ 90.2 Scope.
	+ Definitions
		- Accessible (as applied to equipment).
		- Approved.
		- Arc Flash Hazard.
		- Arc Flash Suit.
		- Arc Rating.
		- Attachment Plug (Plug Cap) (Plug).
		- Authority Having Jurisdiction (AHJ).
		- Automatic.
		- Balaclava.
		- Barricade.
		- Barrier.
* Section Review
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|  | * Part 2
	+ Definitions
		- Bonded (Bonding).
		- Bonding Conductor or Jumper.
		- Boundary, Arc Flash.
		- Boundary, Limited Approach.
		- Boundary, Restricted Approach.
		- Building.
		- Cabinet.
		- Circuit Breaker.
		- Conductive.
		- Conductor, Bare.
		- Conductor, Covered.
		- Conductor, Insulated.
		- Controller.
		- Current-Limiting Overcurrent Protective Device.
		- Cutout.
		- De-energized.
		- Disconnecting Means.
		- Disconnecting (or Isolating) Switch (Disconnector, Isolator).
		- Electrical Hazard.
* Section Review
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|  | * Part 3
	+ Definitions
		- Electrically Safe Work Condition.
		- Enclosed.
		- Enclosure.
		- Equipment, Arc-Resistant.
		- Fault Current.
		- Fault Current, Available.
		- Ground Fault.
		- Grounded (Grounding).
		- Grounded Conductor.
		- Ground-Fault Circuit Interrupter (GFCI).
		- Grounding Conductor, Equipment (EGC).
		- Grounding Electrode Conductor.
		- Guarded.
		- Incident Energy.
		- Incident Energy Analysis.
		- Interrupter Switch.
		- Interrupting Rating.
* Section Review
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|  | * Part 4
	+ Definitions
		- Interrupting Rating.
		- Labeled.
		- Listed.
		- Luminaire.
		- Motor Control Center.
		- Overcurrent.
		- Panelboard.
		- Premises Wiring (System).
		- Qualified Person.
		- Receptacle.
		- Risk Assessment.
		- Service Drop.
		- Service Lateral.
		- Short-Circuit Current Rating.
		- Single-Line Diagram.
		- Step Potential.
		- Switch, Isolating.
		- Switchgear, Metal-Clad.
* Section Review
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|  | * Part 5
	+ Definitions
		- Switchgear, Metal-Enclosed.
		- Touch Potential.
		- Utilization Equipment.
		- Voltage (of a Circuit).
		- Working On (energized electrical conductors or circuit parts).
	+ 105.1 Scope.
	+ 105.3 Responsibility.
	+ 110.1 Priority.
	+ 110. 3 Electrically Safe Work Condition.
	+ 110.4 Energized Work.
	+ 110.5 Electrical Safety Program.
* Section Review
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|  | * Part 6
	+ 110.5 Electrical Safety Program.
	+ 110.6 Training Requirements.
* Section Review
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|  | * Part 7
	+ 110.7 Host and Contract Employers’ Responsibilities.
	+ 110.8 Test Instruments and Equipment.
	+ 110.9 Portable Cord- and-Plug-Connected Electric Equipment.
	+ 110.10 Ground-Fault Circuit-Interrupter (GFCI) Protection.
	+ 110.11 Overcurrent Protection Modification.
	+ 110.12 Equipment Use.
	+ 120.1 Lockout/Tagout Program.
* Section Review
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|  | * Part 8
	+ 120.2 Lockout/Tagout Principles.
	+ 120.3 Lockout/Tagout Equipment.
	+ 120.4 Lockout/Tagout Procedures.
	+ 120.5 Process for Establishing and Verifying an Electrically Safe Work Condition.
	+ 130.1 General.
	+ 130.2 Energized Electrical Work Permit.
	+ 130.4 Shock Risk Assessment.
	+ 130.5 Arc Flash Risk Assessment.
	+ 130.7 Personal and Other Protective Equipment.
* Section Review
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|  | * Part 9
	+ 130.7 Personal and Other Protective Equipment.
	+ 130.8 Other Precautions for Personnel Activities.
* Section Review
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|  | * Part 10
	+ 130.8 Other Precautions for Personnel Activities.
	+ 130.9 Work Within the Limited Approach Boundary or Arc Flash Boundary of Overhead Lines.
	+ 130.10 Underground Electrical Lines and Equipment.
* Section Review
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|  | * Part 11
	+ 130.11 Cutting or Drilling.
	+ 130.12 Cutting, Removing, or Rerouting of Conductors.
	+ 200.1 Scope.
	+ 205.1 Qualified Persons.
	+ 205.2 Single-Line Diagram.
	+ 205.3 General Maintenance Requirements.
	+ 205.4 Overcurrent Protective Devices.
	+ 205.5 Spaces About Electrical Equipment.
	+ 205.6 Grounding and Bonding.
	+ 205.7 Guarding of Energized Conductors and Circuit Parts.
	+ 205.8 Safety Equipment.
	+ 205.9 Clear Spaces.
	+ 205.10 Identification of Components.
	+ 205.11 Warning Signs.
	+ 205.12 Identification of Circuits.
	+ 205.13 Single and Multiple Conductors and Cables.
	+ 205.14 Flexible Cords and Cables.
* Section Review
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|  | * Part 12
	+ 205.15 Overhead Line Clearances.
	+ 210.1 Enclosures.
	+ 210.2 Area Enclosures.
	+ 210.3 Conductors.
	+ 210.4 Insulation Integrity.
	+ 210.5 Protective Devices.
	+ 215.1 Covers for Wiring System Components.
	+ 215.2 Open Wiring Protection.
	+ 215.3 Raceways and Cable Trays.
	+ 220.1 Scope.
	+ 220.2 Protection and Control Circuitry.
	+ 225.1 Fuses.
	+ 225.2 Molded-Case Circuit Breakers.
	+ 225.3 Circuit Breaker Testing After Electrical Faults.
	+ 230.1 Terminal Boxes.
	+ 230.2 Guards, Barriers, and Access Plates.
	+ 235.1 Scope.
* Section Review
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|  | * Part 13
	+ 235.2 Maintenance Requirements for Hazardous (Classified) Locations.
	+ 240.1 Ventilation.
	+ 240.2 Eye and Body Wash Apparatus.
	+ 245.1 Maintenance Requirements for Portable Electric Tools and Equipment.
	+ 250.1 Maintenance Requirements for Personal Safety and Protective Equipment.
	+ 250.2 Inspection and Testing of Protective Equipment and Protective Tools.
	+ 250.3 Safety Grounding Equipment.
	+ 250.4 Test Instruments.
	+ 310.1 Scope.
	+ 310.2 Definitions.
	+ 310.3 Safety Training.
* Section Review
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|  | * Part 14
	+ 310.3 Safety Training.
	+ 310.4 Employee Training.
	+ 310.5 Safeguarding of Employees in the Cell Line Working Zone.
	+ 310.6 Portable Tools and Equipment.
	+ 320.3 Safety Procedures.
* Section Review
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|  | * Part 15
	+ 320.3 Safety Procedures.
	+ 330.1 Scope.
	+ 330.3 Hazardous Energy.
	+ 330.4 Electrical Safety Training.
	+ 340.1 Scope.
* Section Review
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|  | * Part 16
	+ 340.4 Hazards Associated with Power Electronic Equipment.
	+ 350.3 Applications of Other Articles.
	+ 350.4 Electrical Safety Authority (ESA).
	+ 350.5 Specific Measures and Controls for Personnel Safety.
	+ 350.9 Energy Thresholds.
	+ 350.10 Establishing an Electrically Safe Work Condition.
	+ 360.1 Scope.
	+ 360.3 Stored Energy Hazard Thresholds.
	+ 360.4 Specific Measures for Personnel Safety.
	+ 360.5 Establishing an Electrically Safe Work Condition for a Capacitor(s).
* Section Review
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