

Engineering PE Power Engineering Safety

Author: Gerr Zen

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4. Chapter: PE Power Engineering Safety

1. PE Power Engineering Safety Questions

4.1.1. When is the danger of an arc flash the greatest for draw-out circui...

Author: Gerr Zen

When is the danger of an arc flash the greatest for draw-out circuit breakers?

Please choose only one answer:

- When opening the circuit breaker
- When closing the circuit breaker
- When racking the circuit breaker in
- When racking the circuit breaker out
- Both C and D

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [When is the danger of an arc flash the greatest Gerr Zen Power-EE](#)

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4.1.2. What electrical test can help determine the condition of the contac...

Author: Gerr Zen

What electrical test can help determine the condition of the contact pivot's lubrication state?

Please choose only one answer:

- Insulation power factor
- Contact resistance
- Insulation resistance
- Vacuum bottle integrity test
- DC overpotential

Check the answer of this question online at QuizOver.com:

Question: [What electrical test can help determine the Gerr Zen Power-EE Quest](#)

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4.1.3. When evaluating insulation-resistance test results on a medium-volt...

Author: Gerr Zen

When evaluating insulation-resistance test results on a medium-voltage, air-magnetic circuit breaker, what quantity is evaluated?

Please choose only one answer:

- Percent power factor
- Capacitance
- Insulation watts-loss
- Megohms

Check the answer of this question online at QuizOver.com:

Question: [When evaluating insulation-resistance test Gerr Zen Power-EE-Safety](#)

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4.1.4. What dangerous energy could be released during a vacuum bottle inte...

Author: Gerr Zen

What dangerous energy could be released during a vacuum bottle integrity test?

Please choose only one answer:

- Gamma rays
- Nuclear radiation
- X-rays
- None
- Both A and C

Check the answer of this question online at QuizOver.com:

Question: [What dangerous energy could be released during Gerr Zen Power-EE](#)

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4.1.5. What are the insulation power-factor tests typically performed on a...

Author: Gerr Zen

What are the insulation power-factor tests typically performed on a medium-voltage, air-magnetic circuit breaker?

Please choose only one answer:

- Six guarded-specimen tests and three ungrounded-specimen tests
- Three ungrounded-specimen tests and six grounded-specimen tests
- Three guarded-specimen tests and six grounded-specimen tests
- Six ungrounded-specimen tests and three guarded-specimen tests

Check the answer of this question online at QuizOver.com:

Question: [What are the insulation power-factor tests Gerr Zen Power-EE-Safety](#)

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4.1.6. Electrical systems rated less than 240 volts fed by a transformer w...

Author: Gerr Zen

Electrical systems rated less than 240 volts fed by a transformer with a capacity of <125 kVA are not considered an arc-flash hazard.

Please choose only one answer:

- True, according to IEEE 1584
- False

Check the answer of this question online at QuizOver.com:

Question: [Electrical systems rated less than 240 volts Gerr Zen Power-EE Quest](#)

Flashcards:

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Interactive Question:

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4.1.7. Arc -flash protective clothing and equipment are rated to:

Author: Gerr Zen

Arc -flash protective clothing and equipment are rated to:

Please choose only one answer:

- Provide protection to the value indicated as the “arc rating” or “ATPV”
- Provide a 50% probability of a burn at the arc rating or ATPV
- Provide protection in excess of the arc rating or ATPV
- Allow a person to safely work on an energized electrical power system

Check the answer of this question online at QuizOver.com:

Question: [Arc -flash protective clothing and equipment Gerr Zen Power-EE Quest](#)

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4.1.8. Which of the following is NOT a rule-of thumb concerning arc flash:

Author: Gerr Zen

Which of the following is NOT a rule-of thumb concerning arc flash:

Please choose only one answer:

- Incident energy decreases by the inverse square of the distance
- Incident energy is proportional to time
- Each layer of clothing under arc-rated reduces the heat to the body by ~ 50%
- Incident energy is inversely proportional to short circuit current

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is NOT a rule-of thumb Gerr Zen Power-EE Quest](#)

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4.1.9. At what voltage does the arc flash hazard not exist?

Author: Gerr Zen

At what voltage does the arc flash hazard not exist?

Please choose only one answer:

- 480 volts
- 277 volts
- 208 volts
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [At what voltage does the arc flash hazard not exist Gerr Zen Power-EE Quest](#)

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4.1.10. When wearing an arc-rated face shield, what is the correct body pos...

Author: Gerr Zen

When wearing an arc-rated face shield, what is the correct body position when operating electrical equipment?

Please choose only one answer:

- Extend the left arm and turn the face away from the hazard
- Extend the right arm and turn the face away from the hazard
- Extend either arm and turn your face towards the hazard
- Get an apprentice to do it for you

Check the answer of this question online at QuizOver.com:

Question: [When wearing an arc-rated face shield what is Gerr Zen Power-EE Quest](#)

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4.1.11. Which OSHA regulation requires a hazard/risk analysis of the workpl...

Author: Gerr Zen

Which OSHA regulation requires a hazard/risk analysis of the workplace?

Please choose only one answer:

- 1910.132
- 1926.222
- 1910.335
- 1910.147

Check the answer of this question online at QuizOver.com:

Question: [Which OSHA regulation requires a hazard/risk Gerr Zen Power-EE Quest](#)

Flashcards:

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4.1.12. What is the full-load current and available short-circuit current f...

Author: Gerr Zen

What is the full-load current and available short-circuit current for a 2,000 kVA, three-phase transformer with a 208-volt secondary and 5 percent impedance?

Please choose only one answer:

- Full-load current is 2,776 A; short-circuit current is 55,520 A
- Full-load current is 9,600 A; short-circuit current is 88,000 A
- Full-load current is 5,552 A; short-circuit current is 111,104 A
- Full-load current is 2,406 A; short-circuit current is 48,120 A

Check the answer of this question online at QuizOver.com:

Question: [What is the full-load current and available Gerr Zen Power-EE Quest](#)

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4.1.13. Define the Limited Approach Boundary

Author: Gerr Zen

Define the Limited Approach Boundary

Please choose only one answer:

- An approach limit at a distance from an exposed live part within which a shock hazard exists. Unqualified workers and anything conductive that they are carrying must stay beyond this boundary.
- The closest a qualified worker can get to exposed, energized conductors or parts if he/she is wearing rubber insulating PPE, using insulated tools, or has energized parts guarded for the voltage.
- The same as making contact. No part of the body can cross; only hands in rubber insulating PPE rated for the voltage, voltage rated tools, or live-line tools
- The distance from exposed, energized conductors that would result in a 2nd degree burn to unprotected skin.

Check the answer of this question online at QuizOver.com:

Question: [Define the Limited Approach Boundary Gerr Zen Power-EE-Safety Quest](#)

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4.1.14. Define the Flash Protection Boundary

Author: Gerr Zen

Define the Flash Protection Boundary

Please choose only one answer:

- The closest a qualified worker can be to exposed, energized conductors or parts without wearing rubber insulating PPE.
- The closest an unqualified worker can get to exposed, energized conductors or parts.
- The distance from exposed, energized parts that would result in the onset of a 2nd degree burn to unprotected skin.
- The distance from exposed, energized conductors or parts that would result in a 3rd degree burn to unprotected skin.

Check the answer of this question online at QuizOver.com:

Question: [Define the Flash Protection Boundary Gerr Zen Power-EE-Safety Quest](#)

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4.1.15. Once placed into service, rubber gloves must be cleaned, inspected ...

Author: Gerr Zen

Once placed into service, rubber gloves must be cleaned, inspected and electrically tested every _____ months.

Please choose only one answer:

- 2
- 4
- 6
- 12

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Once placed into service rubber gloves must be Gerr Zen Power-EE](#)

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4.1.16. When circuits or equipment are placed in an Electrically-Safe Work ...

Author: Gerr Zen

When circuits or equipment are placed in an Electrically-Safe Work Condition, they are disconnected, locked-out and tagged-out, and _____

Please choose only one answer:

- verified by a supervisor
- tested to insure the absence of voltage, and grounded, if determined necessary
- barricaded so unqualified persons cannot approach.
- nothing else, (LOTO is all OSHA requires).

Check the answer of this question online at QuizOver.com:

Question: [When circuits or equipment are placed in an Gerr Zen Power-EE Quest](#)

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4.1.17. An electrical hazard/risk analysis only looks at the hazards involv...

Author: Gerr Zen

An electrical hazard/risk analysis only looks at the hazards involved with performing energized work.

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [An electrical hazard/risk analysis only looks Gerr Zen Power-EE Quest](#)

Flashcards:

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4.1.18. You are about to perform absence-of-voltage testing on a 480 V pane...

Author: Gerr Zen

You are about to perform absence-of-voltage testing on a 480 V panelboard. There has been no arc-flash study done and there are no labels. You can determine from the transformer nameplate of the transformer feeding the panelboard that the short-circuit current will be less than 50,000 amperes, and the breaker feeding this panel is an MCCB with an instantaneous trip unit and a clearing time of less than two cycles. What is the flash protection boundary?

Please choose only one answer:

- 42"
- 48"
- 60"
- There's no way to tell

Check the answer of this question online at QuizOver.com:

Question: [You are about to perform absence-of-voltage Gerr Zen Power-EE Quest](#)

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4.1.19. When is it not necessary to complete an energized electrical work p...

Author: Gerr Zen

When is it not necessary to complete an energized electrical work permit?

Please choose only one answer:

- Voltage testing, troubleshooting, or like activities
- Tightening terminal strips and lugs
- Replacing a 15 A molded-case circuit breaker
- All the above

Check the answer of this question online at QuizOver.com:

Question: [When is it not necessary to complete an energized Gerr Power-EE Quest](#)

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4.1.20. Article 110 of the NFPA-70E states that CPR must be certified by th...

Author: Gerr Zen

Article 110 of the NFPA-70E states that CPR must be certified by the employer at a specific interval. What is it?

Please choose only one answer:

- Every three years, just like the American Heart Association recommend
- Every two years
- Every year
- The interval is left up to the employer's discretion

Check the answer of this question online at QuizOver.com:

Question: [Article 110 of the NFPA-70E states that CPR must Gerr Power-EE Quest](#)

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4.1.21. In Article 100 of the NFPA-70E there is a new requirement for train...

Author: Gerr Zen

In Article 100 of the NFPA-70E there is a new requirement for training for a qualified electrical worker. What is it?

Please choose only one answer:

- All training must be certified by the authority having jurisdiction
- Qualified workers must now be trained to select an appropriate voltage detector and demonstrate how to use it.
- Training must include proper application of ground clusters, including setting up an equipotential zone.
- Qualified workers must be able to determine incident energy using IEEE 1584 or other industry-recognized software

Check the answer of this question online at QuizOver.com:

Question: [In Article 100 of the NFPA-70E there is a new Gerr Zen Power-EE Quest](#)

Flashcards:

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4.1.22. Hazard/Risk Category 1 contains new PPE requirements. What are they?

Author: Gerr Zen

Hazard/Risk Category 1 contains new PPE requirements. What are they?

Please choose only one answer:

- Arc-rated face shield and hearing protection
- Minimum arc rating of clothing raised to 6 cal/cm²
- Arc-rated gloves required for operating circuit breakers with the doors open
- Hearing protection and arc-rated gloves required for all tasks

Check the answer of this question online at QuizOver.com:

Question: [Hazard/Risk Category 1 contains new PPE requirements Gerr Power](#)

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4.1.23. 130.3(C) of the NFPA-70E contains a new requirement. What is it?

Author: Gerr Zen

130.3(C) of the NFPA-70E contains a new requirement. What is it?

Please choose only one answer:

- Equipment shall be labeled with the arc-flash protection boundary from an arc-flash study and shock protection approach boundaries..
- Equipment labeling shall include minimum safe approach distances for arc flash only.
- Equipment shall be field marked with either the incident energy or the required level of PPE..
- Equipment labels shall be uniform in size and color. There are too many confusing designs.

Check the answer of this question online at QuizOver.com:

Question: [130.3 C of the NFPA-70E contains a new requirement Gerr Power-EE](#)

Flashcards:

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Interactive Question:

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4.1.24. In question 23 above, to what equipment does the new requirement pe...

Author: Gerr Zen

In question 23 above, to what equipment does the new requirement pertain?

Please choose only one answer:

- All electrical equipment, including motors and light switches
- Only equipment with an ampacity above 25,000 amperes
- Electrical equipment covered by 110.16 in the NEC
- No such requirement

Check the answer of this question online at QuizOver.com:

Question: [In question 23 above to what equipment does the Gerr Zen Power-EE](#)

Flashcards:

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4.1.25. A face shield has an 11cal/cm² rating imprinted on it. What does th...

Author: Gerr Zen

A face shield has an 11cal/cm² rating imprinted on it. What does this rating mean?

Please choose only one answer:

- It can safely protect you from 11 cal/cm² incident energy.
- It has a minimum rating of 11 cal/cm². It will probably protect you from a lot more incident energy.
- You can safely use it for all HRC2 job tasks.
- You have a 50% chance of receiving a second degree burn on bare skin.

Check the answer of this question online at QuizOver.com:

Question: [A face shield has an 11cal/cm² rating imprinted Gerr Zen Power-EE](#)

Flashcards:

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4.1.26. If one is wearing an arc-rated face shield or hood, safety glasses ...

Author: Gerr Zen

If one is wearing an arc-rated face shield or hood, safety glasses or goggles are not needed.

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [If one is wearing an arc-rated face shield or Gerr Zen Power-EE Quest](#)

Flashcards:

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