

# ENGLISH RED SEAL SAMPLE



## CONSTRUCTION ELECTRICIAN

### RED SEAL EXAM PREVIEW

---

- Real pages from the English package
- Learning and practice exams
- Answer keys and explanations
- Electrical theory and code review
- Delivered on a physical USB drive

#### SAMPLE COPY

For review only - not for resale

# Built around Red Seal review



Learning exams



Practice exams



Answer keys



Explanations

## Question-based exam preparation

The English Red Seal package uses learning exams and practice exams to review electrical theory, calculations, safety, code knowledge, troubleshooting, and common construction-electrician topics. Separate answer material explains the work behind the questions.

**This preview shows only a small portion of the full package.**

**Independent study material - not affiliated with Red Seal or any certifying authority**

No pass result is promised. Confirm the current occupational standard and exam requirements.

# SPARKUP RED SEAL ELECTRICIAN EXAM PREP

## LEARNING EXAM #1

### Section A – Electrical Theory, Safety & Code Fundamentals

#### Questions 1–25

1.

A 120V branch circuit supplies a continuous load drawing 16A. What is the minimum required conductor ampacity?

A) 16A

B) 18A

C) 20A

D) 25A

2.

A 600V circuit supplies a load drawing 12A. What is the power consumption?

A) 5.4 kW

B) 6.2 kW

C) 7.2 kW

D) 8.4 kW

3.

What is the primary purpose of bonding electrical equipment?

- A) Stabilize voltage to earth
  - B) Provide a low-impedance fault-current path
  - C) Reduce voltage drop
  - D) Increase conductor ampacity
- 

4.

A conductor has a resistance of  $5\Omega$  and carries 10A. How much power is dissipated as heat?

- A) 100W
  - B) 250W
  - C) 500W
  - D) 750W
- 

5.

A 240V heater draws 25A. What is the heater's wattage?

- A) 4,800W
  - B) 5,400W
  - C) 6,000W
  - D) 6,500W
- 

6.

An electrician installs a 30A branch circuit supplying a continuous load. What is the minimum conductor ampacity required?

- A) 30A

# SPARKUP RED SEAL ELECTRICIAN EXAM PREP

## LEARNING EXAM #1

### ANSWER KEY & EXPLANATIONS

---

#### Question 1

**Correct Answer:** C

**Calculation:**

$$16A \times 125\% = 20A$$

**Explanation:**

A continuous load is expected to operate for 3 hours or more. Conductors supplying continuous loads must be sized at 125% of the load.

**Exam Tip:**

When you see the words *continuous load*, immediately think **125%**.

---

#### Question 2

**Correct Answer:** C

**Calculation:**

$$P = V \times I$$

$$P = 600 \times 12$$

$$P = 7,200W$$

$$P = 7.2 \text{ kW}$$

**Explanation:**

Electrical power is calculated by multiplying voltage by current.

**Exam Tip:**

The Red Seal exam frequently tests basic power calculations. Memorize:

$$P = V \times I$$

---

**Question 3**

**Correct Answer:** B

**Explanation:**

Bonding provides a low-impedance path for fault current, allowing overcurrent devices to operate quickly during a fault.

**Exam Tip:**

Grounding references the system to earth.

Bonding clears faults.

Know the difference.

---

**Question 4**

**Correct Answer:** C

**Calculation:**

$$P = I^2 R$$

$$P = 10^2 \times 5$$

$$P = 100 \times 5$$

$$P = 500W$$

**Explanation:**

# Ready to review the full package?



## ENGLISH PACKAGE

**CA\$250**

- Physical USB drive
- Learning and practice exams
- Answer keys and explanations
- Electrical theory and code review
- Watermarked samples before purchase

### QUESTIONS OR ORDERS

**sparkuppro.ca**

sparkuppro.electric@gmail.com

Message Sparkup to confirm availability and arrange pickup or delivery.

Copyright Sparkup Exam Prep. This sample may not be copied, resold, or redistributed.