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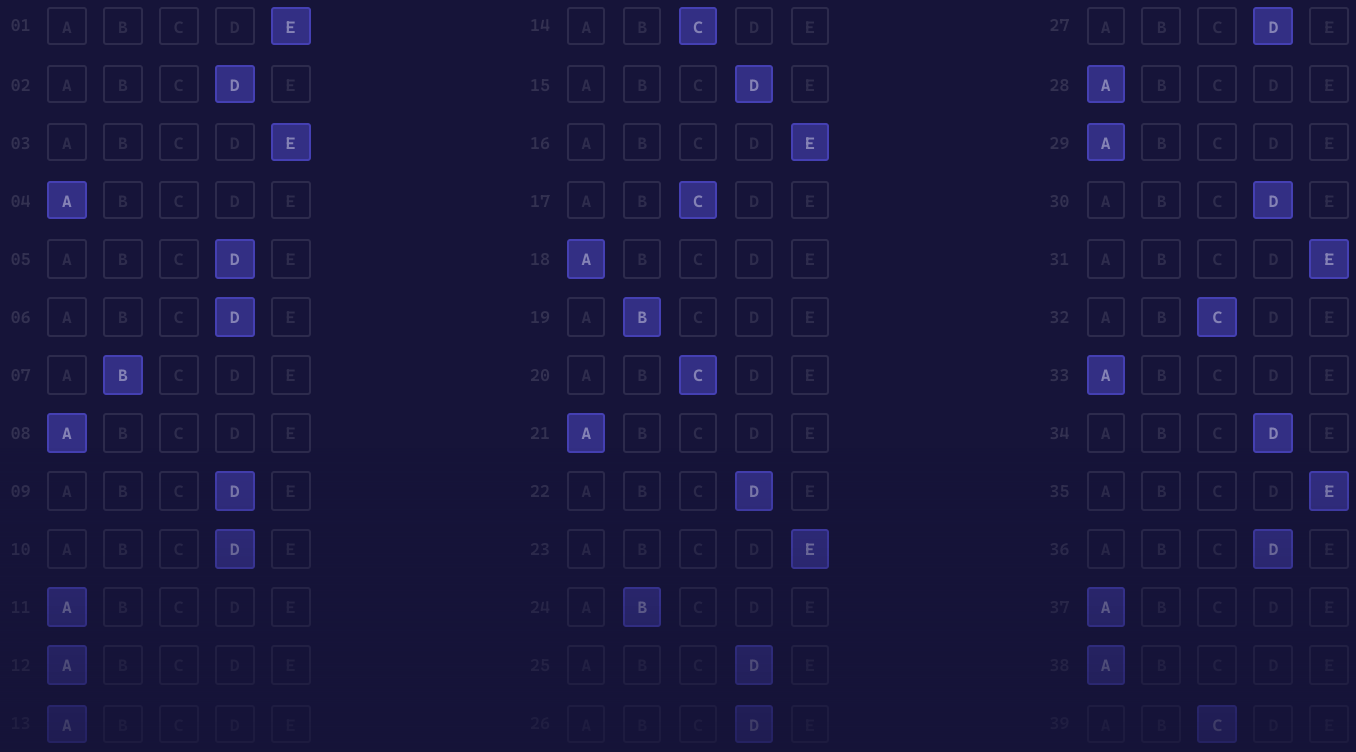


PRACTICE QUESTIONS

## Technical Standards and Safety Authority (TSSA)

# C0FC

Certificate of Competency

| EDITION | QUESTIONS | FORMAT |
| --- | --- | --- |
| Demo | 9 | Limited Edition PDF |

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# Before you begin

## What this is

9 practice questions for Technical Standards and Safety Authority (TSSA) `COFC`, each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

## If something looks wrong

Send us three things and we will check it:

- the exam code, `COFC`
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

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**QUESTION 1** SINGLE CHOICE

Under the Technical Standards and Safety Authority (TSSA) framework, which legislation establishes the authority's mandate to enforce safety standards for fuels and regulated equipment in Ontario?

A Occupational Health and Safety Act

**B Technical Standards and Safety Act, 2000**

C Canadian Environmental Protection Act

D Building Code Act

**ANSWER B**

**WHY** The Technical Standards and Safety Act, 2000 is the Ontario statute that established TSSA and grants it the authority to administer safety standards for the equipment classes it regulates, including those covered by the COFC (Certificate of Competency) program.

**QUESTION 2** SINGLE CHOICE

A holder of a TSSA Certificate of Competency who is operating a regulated appliance is primarily responsible for:

A Designing new fuel-burning equipment for the public

**B Ensuring the equipment is operated safely and in accordance with applicable codes and standards**

C Issuing TSSA inspection certificates without supervision

D Performing all electrical wiring on the premises

**ANSWER B**

**WHY** The Certificate of Competency certifies that the holder has the training to operate the equipment safely in accordance with the applicable code. It does not authorize equipment design, unsupervised inspection certification, or electrical work outside the scope of the certificate.

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**QUESTION 3** SINGLE CHOICE

In a typical combustion process using natural gas, which condition must be satisfied for complete combustion?

A An excess of fuel relative to air

B **A supply of air (oxygen) sufficient to fully oxidize the fuel**

C An absence of oxygen in the combustion chamber

D Cooling of the flue gases below the dew point

**ANSWER** **B**

**WHY** Complete combustion requires sufficient oxygen to fully oxidize the fuel into carbon dioxide and water. Insufficient air produces carbon monoxide and soot, while excessive air reduces efficiency but still permits complete combustion when ignition conditions are met.

**QUESTION 4** SINGLE CHOICE

Before performing maintenance on a piece of regulated equipment, a competent operator must first:

A Notify the gas utility and relight all appliances on the premises

B **Isolate the energy source(s) and verify the equipment is in a safe state before work begins**

C Open all doors and windows to ventilate the work area

D Increase the fuel pressure to confirm valve operation

**ANSWER** **B**

**WHY** Safe work practices require that energy sources (electrical, fuel, mechanical, stored thermal) be isolated and the equipment verified to be in a safe state prior to maintenance. This is the foundational principle behind lockout/tagout and similar hazard control procedures expected of a Certificate of Competency holder.

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**QUESTION 5** SINGLE CHOICE

What is the primary purpose of a flue or chimney serving a fuel-burning appliance?

A To supply combustion air to the appliance

**B To safely convey combustion products to the outdoors**

C To provide structural support for the appliance

D To regulate gas pressure at the burner

**ANSWER B**

**WHY** The flue/chimney's primary function is to safely vent the products of combustion (including carbon dioxide, water vapour and, in the case of incomplete combustion, carbon monoxide) to the outside atmosphere. Combustion air is supplied separately.

**QUESTION 6** SINGLE CHOICE

During a routine check, a Certificate of Competency holder detects the smell of gas near an appliance. The FIRST appropriate action is to:

A Attempt to relight the appliance to confirm the source

B Operate any electrical switches to identify the affected circuit

**C Elimate ignition sources, evacuate the area and notify the gas supplier / emergency services**

D Open windows and continue operating the appliance while monitoring

**ANSWER C**

**WHY** A gas leak is an immediately dangerous situation. Standard emergency procedure is to eliminate ignition sources where it can be done safely, evacuate occupants and contact the gas utility and/or emergency services. Operating switches or attempting to relight the appliance can ignite accumulated gas.

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**QUESTION 7** SINGLE CHOICE

Which instrument is used to measure the concentration of carbon monoxide in flue gases during an appliance performance check?

A Manometer

**B Combustion gas analyser**

C Megohmmeter

D Pressure gauge

**ANSWER B**

**WHY** A combustion gas analyser is used to sample flue gases and measure concentrations of products of combustion, including carbon monoxide (CO), carbon dioxide (CO2) and oxygen (O2). A manometer measures pressure, and a megohmmeter measures electrical insulation resistance; neither measures CO.

**QUESTION 8** SINGLE CHOICE

When an operator completes an inspection or maintenance activity on regulated equipment, the records created must be:

A Destroyed after 30 days to protect customer privacy

**B Maintained and made available as required by the applicable code, standards and TSSA direction**

C Submitted only if a violation is later discovered

D Forwarded directly to the equipment manufacturer

**ANSWER B**

**WHY** Documentation is a regulatory requirement under TSSA-administered codes and standards. Records must be retained for inspection by TSSA officers and provided to the user/owner, demonstrating that the work was performed by a competent person in accordance with the applicable requirements.

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**QUESTION 9** SINGLE CHOICE

Under Ontario's Operating Engineers Regulation, a person who holds a TSSA Certificate of Competency and is acting as the shift operating engineer in a plant is required to:

A Allow any worker to operate the plant equipment as long as the worker is supervised informally by a co-worker.

**B** **Ensure that the plant is operated in accordance with the certificate class held and applicable operating procedures.**

C Delegate all regulatory reporting duties to the equipment owner so the certificate holder is not personally accountable.

D Operate only when the owner of the plant is physically present on site.

**ANSWER** **B**

**WHY** A Certificate of Competency holder acting as a shift operating engineer under Ontario's Operating Engineers Regulation is responsible for operating the plant in accordance with the class of certificate held and the approved procedures. Option A is wrong because informal supervision by a co-worker does not meet the regulatory standard. Option C is incorrect because the certificate holder retains personal accountability for regulatory duties. Option D is incorrect because physical presence of the owner is not a condition of valid operation.

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