



**Vendor:** GAQM

**Exam Code:** CTIL

**Exam Name:** Certified Software Tester - Intermediate Level  
(CSTIL)

**Version:** DEMO

### Case Study #1 - Scenario

A computerized system is being created to monitor the life support system on board a submarine. It monitors air quality, water supplies and temperature.

This system will be supplied and maintained by SubsInc. SubsInc uses the V-model for software development and conducts four levels of testing, from unit through to operational and site acceptance testing.

Two key risks identified for the air quality system are:

- (1) If the percentage of oxygen in the air falls too low, personnel may suffocate
- (2) If the concentration of carbon dioxide in the air rises too high, the air may become toxic.

To address these risks, the requirement specification for this system includes the following requirements:

- R1) Oxygen must be replaced as it is consumed.
- R2) Carbon dioxide must be removed from the air.

These requirements must be reflected in the functional, technical and program specification documents.

You are a newly recruited test manager.

A risk register has been produced with the following additional risks identified.

#### QUESTION 1

Which one is a product risk associated with the air quality management system?

- A. The system required to monitor oxygen levels may be more expensive than those required to monitor air temperatures.
- B. SubsInc may need to recruit extra developers and testers to deliver the project on time.
- C. Oxygen levels may reach dangerously low levels.
- D. Extreme temperatures may lead to heat exhaustion of personnel.

**Answer: C**

#### QUESTION 2

Which of the following would be an entry criterion into site acceptance testing for the air quality monitoring system?

- A. That the code written to fulfil the requirement to monitor carbon dioxide levels has been 100% path tested.
- B. That the functional specification accurately reflects requirements R1 and R2.
- C. That the system has been tested at levels of oxygen usage well beyond anticipated personnel levels.
- D. That the requirements for temperature control have been signed-off.

**Answer: C**

**QUESTION 3**

Which of the following is an accurate depiction of the hierarchy of test management documentation (where the highest comes first)?

- A. Test policy-Test strategy-Project test plan-System test plan
- B. Test strategy-Test policy-Project test plan-System test plan
- C. Test policy-Project test plan-Test strategy-System test plan
- D. Project test plan-Test strategy-System test plan-Test policy

**Answer: A**

**QUESTION 4**

Which of the following test design techniques would be most suitable for testing that the oxygen is released at the required times?

- A. Decision Testing.
- B. Statement Testing.
- C. Data flow Testing.
- D. Boundary Value Analysis.

**Answer: D**

**QUESTION 5**

When creating the functional specification for the temperature control system, which of the following review types would be most recommended to resolve any issues?

- A. A walkthrough.
- B. A technical review.
- C. A management review.
- D. A code inspection.

**Answer: B**

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