**Consolidation answers**

# Multiple-choice questions

**1. What is the primary goal of asset management?**

d) to maximise asset lifespan and performance

**2. Which of the following is NOT a common cause of equipment breakdowns?**

b) regular maintenance

**3. What is the role of a root cause analysis (RCA) in asset management?**

b) to determine the underlying reasons for equipment failures

# Short-answer questions

1. **Explain the difference between preventive maintenance and reactive maintenance.**

Preventive maintenance is a proactive approach to maintenance where actions are taken on a regular schedule to anticipate and prevent potential equipment failures. Reactive maintenance is a responsive approach that addresses issues only after a breakdown or malfunction has occurred, aiming to restore the equipment to working order as quickly as possible.

Essentially, preventive maintenance aims to avoid problems before they happen, while reactive maintenance fixes problems after they arise.

1. **Discuss the importance of condition monitoring in asset management.**

Condition monitoring is crucial in asset management as it allows for early detection of potential equipment failures:

* enabling proactive maintenance interventions;
* minimising unplanned downtime;
* optimising asset lifespan;
* ultimately reducing overall maintenance costs by only servicing assets when necessary, rather than adhering to fixed schedules.

Essentially condition monitoring involves maximising asset performance and reliability through data-driven insights into their current condition.

1. **How can effective training and operator care contribute to reducing equipment breakdowns?**

Training employees means that they can identify potential issues early, preventing equipment downtime and costly repairs. Proper training ensures operators understand the specific pieces of equipment they work with. This includes how to address minor problems before they escalate.