



## Get ready!

### 1 Before you read the passage, talk about these questions.

- 1 What are some important parts of a surface mine?
- 2 What is needed to have a successful mine?

## Reading

### 2 Read the memo. Then, choose the correct answers.

- 1 What is the main purpose of the memo?
  - A to report problems at a mine
  - B to request additional equipment
  - C to suggest a site for mining
  - D to describe the progress of a mine
- 2 What is the significance of the outcrop mentioned in the memo?
  - A It determined where the pit will be located.
  - B It prevented workers from creating a sewage lagoon.
  - C It resulted in more overburden than the company anticipated.
  - D It delayed the company from obtaining permission from the city.
- 3 Which of the following has been constructed on the site?
 

A access ramps	C waste dump
B haulage roads	D access roads

## memo

**From:** Mr. Gregg Williams  
**To:** All board members of Manderton Mining  
**Re:** Red Hill Mine

Crews have located an **outcrop**. It will guide us when we begin digging the main **pit**. Teams are estimating depth for **benches**, the ideal depth which will allow us to reach the targeted area of the coal **face**. **Access ramps** and **berms** will be built as digging progresses.

We started constructing **haulage roads**. Crews are also placing the lining for the **sewage lagoon**. The crews need to complete their estimates on how large the pit will be. Then we can select a site for the **waste dumps** for **waste rock**. Crews also need to estimate the amount of **overburden**.

We are waiting for permission from the city. Then we can build **access roads** from the highway to the actual site. Work on the main office and storage facilities will also begin once the access roads are built.

## Vocabulary

### 3 Read the sentence pairs. Choose the sentence that uses the underlined part correctly.

- 1 A James put the new equipment in the waste dump.  
 B The crews are working on the western face today.
- 2 A Lenny sent tools down the waste dump to a lower level of the mine.  
 B The driver turned onto the access road to reach the mining site.
- 3 A The new miner is assigned to work in the pit.  
 B The machines removed earth to expose the overburden.
- 4 A The haulage road connects the pit to the transport area.  
 B The waste rock was refined immediately.
- 5 A Fresh water is available at the sewage lagoon.  
 B The vehicle was not damaged due to the berm.



- 4 Fill in the blanks with the correct words or phrases from the word bank.

### Word BANK

outcrop      sewage lagoon      bench  
waste dump      waste rock      overburden

- 1 The \_\_\_\_\_ was stored in a dump until it could be moved elsewhere.
- 2 The \_\_\_\_\_ guided the team as they dug the pit.
- 3 The crew removed several tons of \_\_\_\_\_ before they accessed the ore.
- 4 Waste water is stored in the \_\_\_\_\_.
- 5 The miners stood on the \_\_\_\_\_ while they worked.
- 6 The mine needs more space for a \_\_\_\_\_ where unneeded materials are kept.

- 5 Listen and read the memo again. What structures still need to be built?

## Listening

- 6 Listen to a conversation between a construction foreman and an executive. Mark the following statements as true (T) or false (F).

- 1 \_\_\_ The speakers are discussing the construction of a new mine.
- 2 \_\_\_ The site has access roads already.
- 3 \_\_\_ Crews already built berms at the site.

- 7 Listen again and complete the conversation.

**Foreman:** Okay, Ms. Stein. You can see where we've started construction on the pit. You'll want to 1 \_\_\_\_\_ the edge there.

**Executive:** Wow, that's very deep. How do the mining crews get down to the face?

**Foreman:** There will be a small 2 \_\_\_\_\_ on the other side.

**Executive:** I see. And the road next to the pit leads to the highway?

**Foreman:** Actually, those are 3 \_\_\_\_\_. Trucks on these roads will carry the coal for processing. Some will also carry 4 \_\_\_\_\_ to the dump.

**Executive:** That's what I thought. Hmm ... I see a ledge along the pit. But it looks too narrow for anyone to work there.

**Foreman:** That's just a 5 \_\_\_\_\_. It helps 6 \_\_\_\_\_ from the slope above.

## Speaking

- 8 With a partner, act out the roles below based on Task 7. Then, switch roles.

### USE LANGUAGE SUCH AS:

*You'll want to watch out for ...*

*Actually, ...*

*What's it for, exactly?*

**Student A:** You are a construction foreman giving a tour of the mine. Talk to Student B about:

- staying safe at the site
- what structures have been built
- what structures need to be built

**Student B:** You are an executive. Talk to Student A about the mine.

## Writing

- 9 Use the conversation from Task 8 to fill out the mine survey form.

### MANDERTON MINING Site Inspection Sheet

What is the production status of the mine?

\_\_\_\_\_

Describe any safety issues you observed at the mine.

\_\_\_\_\_

What structures still need to be built?

\_\_\_\_\_