

## PRODUCTIVITY PLACEMENT PROGRAM CERTIFICATE III IN DRILLING – PRACTICAL EXERCISE

This is a real example of a practical exercise from the DICAT Course. It gives you an idea of how we use maths you've already learnt and used in your life. Please study the example and then complete the test yourself section and **send this page back to us with your application.**

### The Example - Expected time of arrival (ETA)

Scenario: You have to take supplies to another site and before leaving you have to let the drill site know your estimated time of arrival.

The site is 630 kilometres away and, because of reduced speed limits through towns and road conditions, the maximum speed limit is 110 kms/hour. You expect to average 90 kms/hour and your supervisor has told you to stop every 2 hours for a half hour rest and to check your vehicle and load.

You are to leave the workshop at 7.00 am. What time will you arrive?

Answer:

*Travel time =  $630 \div 90 = 7$  hours*

*If you have to stop every 2 hours, you will stop three times before you get to the site so rest time =  $3 \times 0.5$  hours = 1.5 hours*

*Total travel time = 8.5 hours*

*If you leave at 7.00 am, your ETA will be **3.30 pm***

Test yourself:

Scenario: The driller asks you to pick up some pump parts today from the depot in town, and you have to advise them what time to expect you.

The depot is 260 kilometres away, and because of recent heavy rain in the region and road conditions you expect to average 80 kms/hour. Your supervisor has told you to stop every 2 hours for a half hour rest and to check your vehicle. You are to leave the site at 8.00 am. What time will you arrive?

My answer: \_\_\_\_\_ My name: \_\_\_\_\_