

#### **LECTURE OUTLINE**

# PART 1 (30 MINUTES)

- Marking of assignments
- October/November 2018 examination guidelines

# PART 2 (180 MINUTES)

• Various learning units for discussion.

## **MARKING OF ASSIGNMENTS**

- MCQ assignments are marked by a computer at a central place (Assignment Division located at the Main Campus).
- Owing to the extension of the due date of selected modules' assignments that were due between 29 June 2018 and 15 August 2018, the marking of these assignments only commenced on 13 September 2018.

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- The solution to assignment 01 will be available by the end of September 2018.
- It has come to our attention that during the marking of assignment 01, question 2 was taken into account. The request for remark has been sent to the assignment division, where the MCQs marking takes place, to rerun the marking system without taking into account question 2.

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- Regrettably, question 20 did not provide adequate information. So too this question will be ignored when the remark is done. Assignment 01 will therefore be remarked out of 18 questions.
- With regards to the marking of assignment 02, which is a written assignment, paragraph 7.7 on page 9 of tutorial letter 101/3/2018 refers.

#### **MARKING OF ASSIGNMENTS**

• For your information, par 7.7 states that:

"It is the practice of the Department of Management Accounting not to mark the whole assignment. Depending on the length and degree of difficulty of an assignment, only one or two questions or parts of these questions may be marked. Your mark for the whole assignment, therefore, will be the marks you obtained for the specific section(s) that have been marked".

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- You were required to answer ALL the questions as they might form part of the selected questions for marking. The lecturers cannot inform you upfront on which question(s), or parts thereof, will be selected for marking.
- The suggested solutions to assignments 01 and 02 will only be available online on myUnisa. NO PRINTED COPIES will be mailed to students.

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Information regarding the calculation of year mark, final mark as well as the examination admission criteria is included in SECTION 8, pages 10 to 11 of tutorial letter 101/3/2018 for this module.

#### **EXAMINATION PERIOD**

- As you may know, this module is offered in a semester period of fifteen weeks.
- This means that as you are registered for the second semester, you will write the examination in October/November 2018 and the supplementary examination will be written in May/June 2019.

#### YEAR/SEMESTER MARK

#### Illustrative example:

If student X submits both assignments and obtains the following marks:

Assignment 01: 85% Assignment 02: 60%

Semester mark =  $(85 \times 25\%) + (60 \times 75\%)$ 

= 66,25%

How many marks should student X attain in order to pass the examination?

#### **FINAL MARK**

Student X must get a final mark of 50 marks, accordingly, using the above semester mark the final mark will be determined as:

(Semester mark x 20%) + (exam mark x 80%) = 50

 $(66,25 \times 20\%) + 80\%$  exam mark = 50

Exam mark = 36,75/80%

Exam mark = 45,9 (46%)

So student X must get at least 46% in order to pass

## **FINAL MARK**

What if student Y submits only compulsory assignment 01 and obtains 80%?

 $[(80 \times 25\%) \times 20\%] + 80\%$  exam mark = 50

Exam mark = 46/80%

Exam mark = 57,5 (58%)

So student Y must get at least 58% in order to pass. The above illustration means that the lower the semester mark, the higher the marks you have to obtain in the exam!

SUBMINIMUM POLIC	U I	ľ
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- If you do not obtain a subminimum of 40% in the examination; your year/semester mark will not be taken into consideration.
- You also need to obtain a subminimum of 40% in the examination for you to qualify for the supplementary examination

## FINAL YEAR (FI) CONCESSION POLICY

- The students must meet all of the following criteria to qualify for FI concession should they FAIL the forthcoming exam:
- The student must be registered to complete an undergraduate qualification at Unisa. The outstanding modules must be the modules outstanding to complete the qualification.

#### FI POLICY

- The student must have sat for and failed the examination in the one/two outstanding module(s) during the last examination session. This requirement does not apply to aegrotat students who meet all the other requirements.
- The student must have no more than two modules outstanding.

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- Practical modules are not included in this policy.
- Students who meet the criteria must reregister pending the finalisation of the procedure. If the student is successful the registration is cancelled and the fees are refunded. If unsuccessful, the registration remains in place and the student continues with his/her studies.

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Students who meet the criteria will be informed by the Directorate: Student Assessment Administration in January 2019 and invited to contact the relevant lecturer with a view to being given an opportunity to complete the modules by way of alternative assessment deemed appropriate by the academic department. Lecturers may also contact students after receiving notification by DSAA.

#### **OCT/NOV. 2018 EXAM GUIDELINE**

The final examination for this module will count 100 marks. The duration of the paper is 120 minutes (i.e. 2 hours) and it is available in English only.

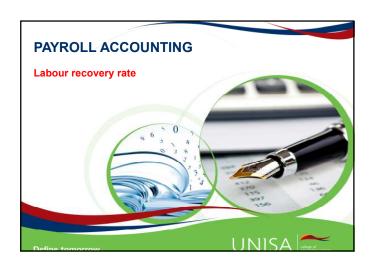
The Examination Section will determine the final examination date — your lecturers cannot influence it in any way. However, you may access the examination timetable by logging in to https://my.unisa.ac.za (desktop and mobile website) and clicking on My admin.

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OCT/NOV. 2018 EXAM GUIDELINE	
Your examination question paper consists of FIVE (5) questions, each worth between 10 and	
35 marks. Compulsory Assignment 02 reflects the standard and the type of questions you can	
expect in the examination.	
	1
OCT/NOV. 2018 EXAM GUIDELINE	
While preparing for the examination, it is very	
important that you work through all your assignments and do as many questions,	
activities and examples in the study guide, as	
possible.  Also work through the self assessment	
questions contained in the two sets of the	
<b>question banks</b> available on myUnisa under additional resources of this module site.	
additional resources of this module site.	
OCT/NOV. 2018 EXAM GUIDELINE	·
You need to know the whole syllabus for the	
examination. In other words, your examination	
paper will cover all 14 learning units of the syllabus. The marks are distributed per topic as	
follows:	

# **OCT/NOV. 2018 EXAM GUIDELINE**

Topic	Estimated marks	
MCQs (various learning units)	10	
Accounting for and valuation of purchased inventory; and payroll accounting	35	
Assignment of overheads & Product cost accumulation for inventory valuation and profit calculation		
Budgeting	20	
Ratio analyses	15	





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- The labour recovery rate is a rate that aims to recover all the cost of labour from the cost of production.
- The preparation of a company's budget will start with the sales budget. After determining how many units the company is budgeting to sell, a production budget is prepared to ensure that sufficient units will be available for sale in inventory.

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Once we know the number of units to be produced, we can prepare the budgets for materials, <u>labour requirements</u> as well as the factory overheads.

#### LABOUR RECOVERY RATE

In addition to the normal wage due to an employee, employee benefits such as the employer's share of the pension fund contribution and the medical aid scheme, vacation pay and bonuses form a substantial element of labour cost.

These total costs that relates to the employee are called 'cost to company'/CTC.

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LABOUR RECOVERY RATE	
In addition to the compensated absences like vacation leave and public holidays, there are other times that workers do not produce any	
output. These times are called <i>idle time</i> .	
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LABOUR RECOVERY RATE	
Normal idle time is anticipated and even	
planned for in the budget (e.g. the time that employees spend attending meetings and	
training sessions, or times that equipment undergo routine maintenance).	
LABOUR RECOVERY RATE	
LABOUR RECOVERY RATE	
<ul> <li>Although in practice, a rate is calculated per department or cost centre, the scope of this</li> </ul>	
module only involves the calculation of the total annual expenditure per hour for one	
employee.	

<b>LABOUR</b>	<b>RECOV</b>	/ERY	<b>RATE</b>
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The calculation of **labour recovery rate** exercise involves the following two basic calculations:

- productive hours; and
- total labour costs/cost to company

#### LABOUR RECOVERY RATE

 The labour recovery rate is then determined by dividing the total budgeted labour cost by the total budgeted productive hours per employee for the year.

## **Labour recovery rate- Worked Example**

Let's work through the following example, which is example 6.4, on page 156 of study guide, adapted:

# **Labour recovery rate- Example**

- Mars limited indicates that 25 000 units of Product A are budgeted to be produced in 2019. It takes a mixer 90 minutes to mix one unit of Product A.
- The company employs twenty (20) mixers and one supervisor. The factory supervisor's annual salary totals R240 000. The normal rate for mixers is R50 per hour.

Labour recovery	v rate- Exampl	e
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#### Additional information:

- The mixers work an eight hour day.
- The factory operates five (5) days a week (i.e. Monday to Friday).
- There are 12 paid public holidays annually, of which 2 falls on a Saturday.
- Each employee is entitled to a one and half (1,5) hour tea/lunch break a day.
- Each employee is entitled to three (3) weeks' vacation leave.

## Labour recovery rate- Example

#### Additional information:

- Employee pension contributions are calculated at 7,5% of the normal wage and the employer pension contributions are calculated at 15% of normal wage.
- UIF contributions are calculated at 1% of the gross wage for both employer and employee.

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# Labour recovery rate- Example (cont..)

#### Additional information:

- Unavoidable stoppages are estimated at 5% of available production time.
- Overtime is remunerated at one and half (1,5) times the normal rate. Assume that the overtime hours are distributed equitably over productive weeks and each worker clocks the same number of overtime hours.

#### **REQUIRED:**

Calculate the following

- Total annual hours available for production for all mixers
- 2. Production time required for the year
- 3. The anticipated overtime hours for the year
- 4. The labour recovery rate for one mixer

## **Labour recovery rate- Example (cont..)**

## **REQUIRED:**

Calculate the following

- 5. Total annual overtime premium.
- 6. The direct labour budget for the year

-	
-	
-	

Labour recovery rate- Example	
1.	
Total hours inclusive lunch-break (8 x 5) 40,00	
Less: lunch-break (1,5 x 5) 7,50	
Available production hours for a week Hours available in a year (52 x 32,5 hrs)  1 690	-
Hours available in a year (52 x 32,5 hrs) 1 690 Less: Vacation leave (3 weeks x 32,5 hours) 97,5	
Public holidays (10 days x 6,5 hours) 65,0	
1 527,5	
Annual available hours (1 527,5 x 20)= <u>30 550</u>	
Labour recovery rate- Example	
2. Production time required	
Budgeted units 25 000 x 90/60 minutes (or	
1,5hrs)	-
= 37 500 hrs	
Labour recovery rate- Example	
O Addistracted securities foughts as an	
3. Anticipated overtime for the year	-
Production time require (37 500 - 30 550)	
= 6 950 hrs	

# **Labour recovery rate - Example**

4. Hourly recovery rate:

Mixer = R120 640\*/1 451,1\* hours

= R83,14 per hour

Determined as follows...

# **Labour recovery rate- Example**

Mixer:

Normal annual wage (52 – 3 wks annual leave x40 hrs x R50 R98 000

Add: annual leave (3 x 40 hrs R50) 6 000

Employer contribution:

Pension fund (15% x 98 000 + 6 000) 15 600 UIF (1% x 104 000) 1 040

Total labour cost per year 120 640

## **Labour recovery rate- Example**

Mixer:

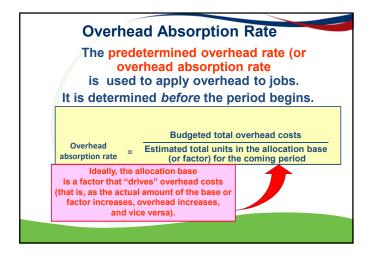
Annual available hours (1) 1 527,5 Less: idle time (1 527,5 x 5%) 76,4 Total productive hours 1 451,1

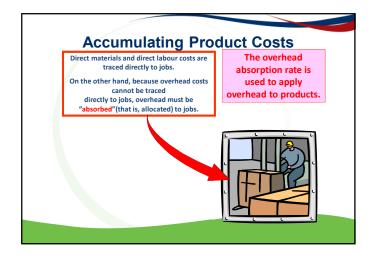
Labour recovery rate- Example	
5.	
Overtime premium (6 950 x R50 x 0,5) = R173 750	
Or	
OI .	
(R50 x 1,5 x 6 950) – (R50 x 6 950) = R173 750	
	1
Labour recovery rate- Example	
6. Direct labour cost budget	
Production hours x labour recovery rate	
= 37 500 hrs x R83,14	
= R3 117 750	

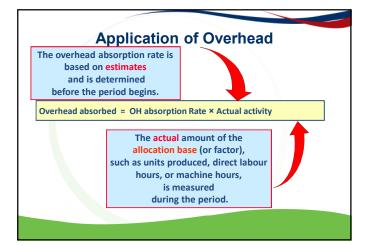












Calculating the Overhead Rate – Example						
Assume overhead is absorbed based on direct labour hours.						
Total estin	nated overhead for the year is R640,000.					
Total e	estimated labour cost is R1,400,000.					
Total esti	Total estimated labour hours are 160,000 hours.					
overhead	Estimated total overhead costs  for the coming period					
absorption rate	Estimated total units in the allocation base (or factor) for the coming period					
	R640,000					
160,000 dire	ct labour hours (DLH) = R4.00 per DLH					

## **Total Amount of Overhead absorbed**

The company's overhead absorption rate is R4.00 per direct labour hour (DLH).

> 170,000 direct labour hours were worked during the period.

To calculate the total overhead absorbed (that is, the overhead absorbed to all jobs that were in process) during the year:

Absorbed Overhead = Absorption Rate × Actual DLH Absorbed Overhead = R4.00 per DLH × 170,000 DLH =

# **Actual Compared with Amount Absorbed**

Under absorbed Overhead **Actual amount** of overhead exceeds amount absorbed to production.

Over absorbed Overhead Amount absorbed to production exceeds actual amount of overhead.

Amount of overhead absorbed to production Actual amount of overhead

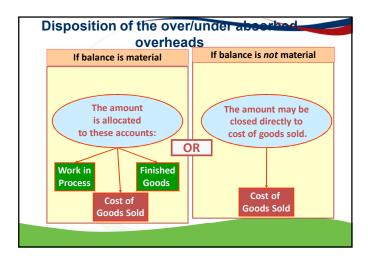
R680,000

incurred

650,000

Over-absorbed overhead

R30,000



Summary of over/under	r-absorbed overheads
If overhead is:	Assuming not material
UNDER-ABSORBED	INCREASE
(Applied OH is less	Cost of Goods Sold
than actual OH)	
OVER-ABSORBED	DECREASE
(Applied OH is greater	Cost of Goods Sold
than actual OH)	

# Absorption of overheads- worked example

Let's work through the following example:

# Absorption of overheads- worked example

	CASE 1	CASE 2
Budgeted overheads	R1 297 800	R1 354 390
Budgeted direct labour hours	(c)	52 700
Overhead absorption rate	R25,20	(a)
Actual labour hours	50 900	(b)
Over/(under) absorbed overheads	(d)	(R25 700)

<b>Absorption</b>	of overheads	<ul><li>worked</li></ul>	example

- Assume that the actual overheads incurred were as per budget.
- The overheads are absorbed on the basis of direct labour hours.

# Absorption of overheads- worked example

## REQUIRED:

 Calculate the missing figures represented by (a) to (d)

# Absorption of overheads- worked example

	CASE 2	CASE 1	
Budgeted overheads	R1 297 800	R1 354 390	
Budgeted direct labour hours	(c)	52 700	
Overhead absorption rate	R25,20	R25,70	
Actual labour hours	50 900	(b)	
Over/(under) absorbed overheads	(d)	(R25 700)	
	F	R1 354 390/52 700	

·	ads-worked	
	CASE 1	CASE 2
Budgeted overheads	R1 297 800	R1 354 390
Budgeted direct	(c)	52 700
labour hours		
Overhead absorption	R25,20	R25,70
rate		
Actual labour hours	50 900	51 700
Over/(under)	(d)	(R25 700)
absorbed overheads		

	CASI	E 1	CASE 2
Budgeted overheads	R1 29	97 800	R1 354 390
Budgeted direct labour hours	<mark>51</mark>	500	52 700
Overhead absorption rate	R2	5,20	R25,70
Actual labour hours	50	900	51 700
Over/(under) absorbed overheads	(	d)	(R25 700)

Absorption of overheads- worked example			
Absorption of overne	CASE 1	CASE 2	
Budgeted overheads	R1 297 800	R1 354 390	
Budgeted direct labour hours	51 500	52 700	
Overhead absorption rate	R25,20	R25,70	
Actual labour hours	50 900	51 700	
Over/(under) absorbed overheads	(R15 120)	(R25 700)	
(R2	5,20 x 50 900) -	R1 297 800	



# **Production Departments**

All manufacturing activities required to convert direct materials into finished goods take place in production department.

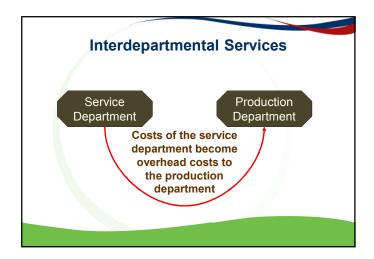
The Surgery Department at Mount Sinai Hospital. The Geography Department at the University of Washington.

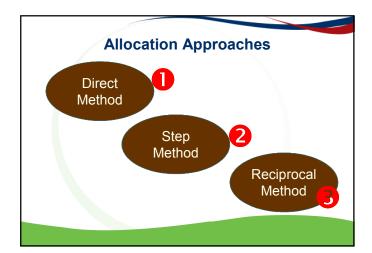
A Production Department at Toyota.

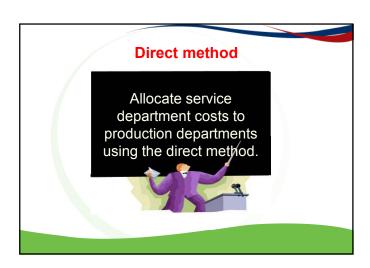
# **Service Departments**

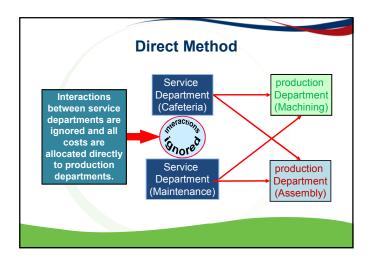
Service departments do not directly engage in production activities. However they render essential service that enable the production departments to perform their central activities.

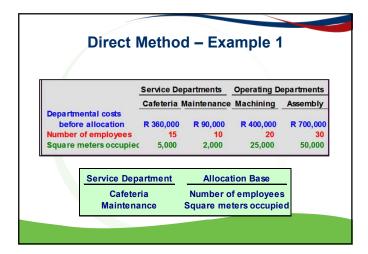
The Maintenance Department at Toyota. The Human Resources Department at Toyota.

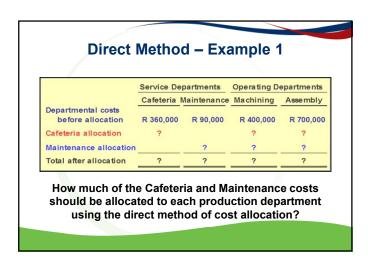


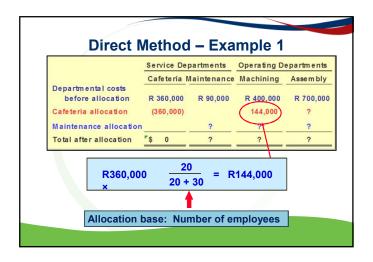


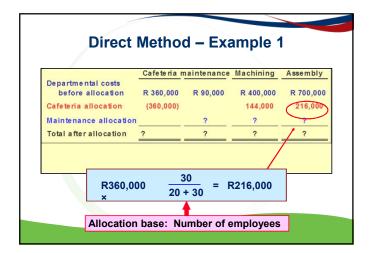


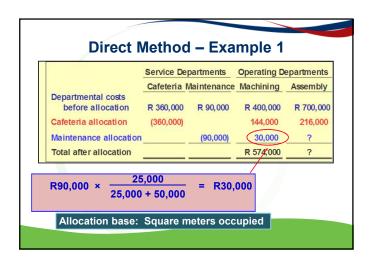












	epartments	Operating D	epartments
Cafeteria	Maintenance	Machining	Assembly
R 360,000	R 90,000	R 400,000	R 700,000
(360,000)		144,000	216,000
	(90,000)	30,000	60,000
0	0	R 574,000	R 976,000
		= R60,000	1
	<u> </u>		
	R 360,000 (360,000)	R 360,000 R 90,000 (360,000)	(360,000) 144,000 (90,000) 30,000 0 0 R 574,000 50,000 = R60,000

## **Direct Method and Step method**

The key point to understand regarding both the direct method (and step method):

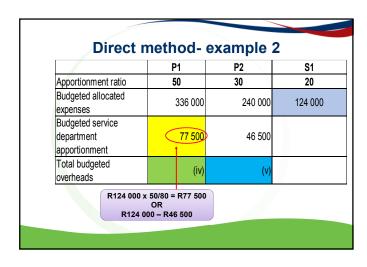
Any **amount of the allocation base** attributable to the service department whose cost is being allocated is always ignored.

## **Direct method - Example 2**

Ubombo Limited has two production departments, namely P1 and P2. The company has also one service department, namely S1 that provides service services to the production departments. The management accountant must apportion the budgeted overheads in the ratio 50:30:20 to P1, P2 and S1.

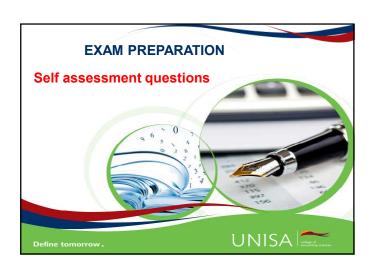
Direct method - example 2  • Fill in the missing figures (i) to (iv):				
P1	P2	S1		
50	30	20		
R336 000	R240 000	(i)		
(ii)	46 500			
(iii)	(iv)			
	Sing figure P1 50  R336 000  (ii)	sing figures (i) to (iv           P1         P2           50         30           R336 000         R240 000           (ii)         46 500		

	P1	P2	<b>S</b> 1
Apportionment ratio	50	30	20
Budgeted allocated	R336 000	R240 000	R124 000
expenses	K330 000	K240 000	K124 000
Budgeted service			
department	(ii)	46 500	
apportionment			
Total budgeted	(iv)	(14)	
overheads	(1V)	(v)	/



Apportionment ratio	50	30	20
Budgeted allocated expenses	336 000	240 000	124 000
Budgeted service department apportionment	77 500	46 500	
Total budgeted overheads	413 500	(iv)	

	P1	P2	S1
Apportionment ratio	50	30	20
Budgeted allocated expenses	336 000	240 000	124 000
Budgeted service department apportionment	77 500	46 500	
Total budgeted overheads	413 500	286 500	



## **SELF ASSESSMENT QUESTIONS**



 Work through questions 3 and 4 set out on pages: 127 to 128 of the study guide.

## **SELF ASSESSMENT QUESTIONS**



Work through example 6.4 (page 156-158) as well as question 4 as set out on pages 163 of the study guide.

## **SELF ASSESSMENT QUESTIONS**



Work through example 7.4 (page 189) as well questions 2 and 5 set out on pages: 216 to 219 of the study guide.

SELF	ASSESSMENT	QUESTIONS
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Work through activity 8.1 set out on pages: 229 of the study guide.

## **SELF ASSESSMENT QUESTIONS**



Work through question 3 set out on pages: 297 to 298 of the study guide.

## **SELF ASSESSMENT QUESTIONS**



Work through question 4 set out on page 350 of the study guide.

# **SELF ASSESSMENT QUESTIONS**



Remember to download and work through the additional questions, as included in the set of two questions banks, that are available under additional resources of the MAC1501 SITE on myUnisa.

