





Section NO. (7)

Accounting for Indirect Manufacturing Costs

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Example (6):

Production jobs in manufacturing companies pass through two production centers. If you know the following:

1- At the beginning of the month the company estimated that:

Desc.	First center	Second center
Direct labor hours	10,000 hours	6,000 hours
Machine hours	20,000 hours	30,000 hours
Direct labor cost	150,000 EGP	100,000 EGP
Indirect manufacturing costs	180,000 EGP	120,000 EGP

2- Direct labor cost is used to determine the allocation rate for the first center, and the machine hours for the second center.

3- Data related to Job number (325):

Desc.	First center	Second center
Direct materials FACULTY	250 EGP	200 EGP
Direct labors	300 EGP	400 EGP
Machine hours	20 hours	25 hours
Direct labor hours	16 hours	10 hours

4- The number of units produced for the production job is 300 units.

Required:

- 1- Determine the estimated allocation rate of indirect manufacturing costs for each of the two production centers.
- 2- Determine the cost of the production job number (325).
- 3- Determine the unit cost produced from the production job.



Frist: Determine the allocation rate for each production centers.

Allocation rate = indirect manufacturing costs ÷ allocation basis

- 1- The allocation rate of indirect manufacturing costs for the first center
 - = indirect manufacturing cost for the first center ÷ direct labor cost for the first center
 - $= 180,000 \div 150,000$
 - = 1.20 EGP per EGP direct labor.
- 2- The allocation rate of indirect manufacturing costs for the second center
- = indirect manufacturing cost for the second center ÷ machine hours for the second center
- $= 120,000 \div 30,000$
- = 4 EGP per machine hour.

Second: Determine the cost of the production job No. (325):

Desc	First center	Second center	Total
1- Direct materials	250	200	450
2- Direct labors	300	400	700
Prime Costs	550	600	1150
3- Indirect manufacturing costs	COMMERCE		
First center (????)	360		360
Second center (????)		100	100
Total costs of production job	910	700	1610

MOH= allocation rate x share production job from allocation basis Frist center = $1.2 \times 300 = 360$ EGP.

Second center = $4 \times 25 = 100$ EGP.

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Third: Determine the unit cost produced from

Unit cost produced = total costs of production job ÷ total production units

 $= 1,610 \div 300$

= 5.36 EGP per unit.





Frist question: Choose the correct answer:

1- Allocation rate - first center :

A	4 EGP per EGP direct labor.
В	1.2 EGP per EGP direct labor.
C	4 EGP per machine hour. CULTY OF COMMERCE
D	1.2 EGP per direct labor hour.

The correct answer is (B)



Frist question: Choose the correct answer:

2- Allocation rate - second center :

A	4 EGP per EGP direct labor.
В	1.2 EGP per EGP direct labor.
C	4 EGP per machine hour. CULTY OF COMMERCE
D	1.2 EGP per direct labor hour.

The correct answer is (C)



3- Total costs of production job:

A	460 EGP.	
В	1,150 EGP.	
C	12,500 EGP.	
D	1,610 EGP.	FACULTY OF COMMERCE

The correct answer is (D)



4- Prime costs of production job:

A	460 EGP.	
В	1,150 EGP.	
C	12,500 EGP.	
D	1,610 EGP.	FACULTY OF COMMERCE

The correct answer is (B)



5- Share of the production job No.(325) from the indirect manufacturing costs - first center :

A	460 EGP.	
В	100 EGP.	
C	360 EGP.	FACULTY OF COMMERCE
D	1,610 EGP.	

The correct answer is (C)



6- Share of the production job No.(325) from the indirect manufacturing costs - second center :

A	460 EGP.	
В	100 EGP.	
C	360 EGP.	FACULTY OF COMMERCE
D	1,610 EGP.	

The correct answer is (B)



7- Conversion costs of production job No. (325):

A	1,160 EGP.	
В	1,150 EGP.	
C	460 EGP.	
D	1,610 EGP.	FACULTY OF COMMERCE

The correct answer is (A)



8- Total estimated indirect manufacturing costs of Celia Co. as a whole:.....

A	120,000 EGP.
В	180,000 EGP.
C	460 EGP.
D	300,000 EGP.

The correct answer is (D)



9- Cost of unit produced from the job production No. (325):

A	6.23 EGP unit.
В	5.36 EGP per direct labor hour.
C	5.36 EGP per unit.
D	1,610 EGP.

The correct answer is (C)



10- Total indirect manufacturing cost in production job No. (325):.....

A	460 EGP.	
В	100 EGP.	
C	360 EGP.	FACULTY OF COMMERCE
D	1,610 EGP.	

The correct answer is (A)



