

Example
Job Costing

Chapter 4 Job Costing

□ Cost Pool تكاليف

↳ it's a grouping of individual indirect Cost items مجموعة من عناصر التكاليف غير المباشرة

→ Cost pools simplify the allocation of indirect Cost

↳ Because the Costing system does not have to allocate each Cost individually

لأنه ليس من الضروري أن يقوم نظام التكاليف على توزيع كل تكلفة على وحدة

□ Cost-allocation base تكاليف

↳ a systematic way to link an indirect Cost or group of indirect Cost to a Cost object

لأنه طريقة منهجية لربط التكاليف غير المباشرة أو مجموعة التكاليف غير المباشرة بعنصر التكاليف

□ Job Costing تكاليف

↳ Distinct identifiable units of a product or service, for example houses

وهي تكاليف إنتاج وحدات مميزة ومستقلة

□ Job Costing

↳ Different product with different manufacturing need

that means ↳ each job use a Different amount of resources

لذلك، كل منتج يحتاج إلى كمية مختلفة من الموارد

□ Process Costing system نظام تكاليف الإنتاج

↳ The cost object is masses of identical or similar units of a product or service

لأنه، تكلفة الإنتاج هي كتل من وحدات متماثلة أو متشابهة
للمنتج أو الخدمة

→ in this system, we divide the total cost of producing an identical or similar product or service by the total number of unit produced to obtain the total number

↳ a per unit cost

لأنه، يتم تقسيم التكلفة الإجمالية للمنتج على إجمالي
عدد الوحدات لإنتاج التكلفة لكل وحدة

$$\text{Per unit cost} = \frac{\text{Total Cost}}{\text{Total unit}}$$

Example =>

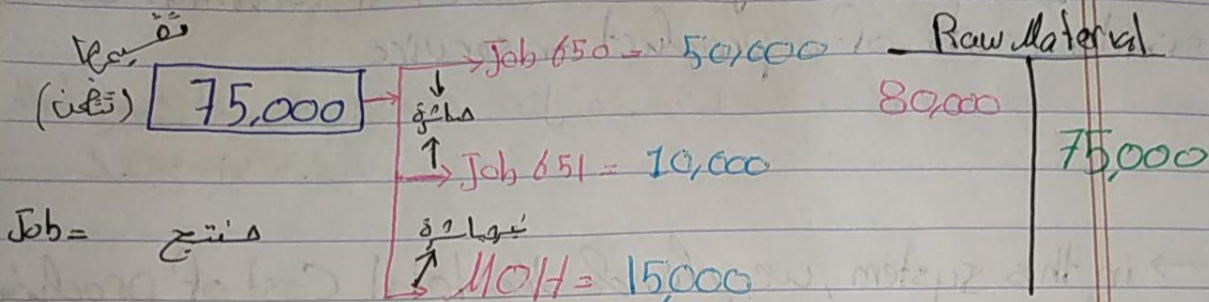
Transaction 18 Purchased worth of Material Cost
80,000 on account

entry →

Raw material 80,000
Account payable 80,000

Raw material
80,000

Transaction 2: Material Cost 75,000 sent to the Plant floor,



entry =

work in process (650, 651)	60,000
Manufacturing overhead	15,000
Raw material	75,000

MOH	WIP
15,000	60,000

Raw material ال 75,000
 WIP ال 60,000
 MOH ال 15,000

Transaction 38 Total Manufacturing payroll = 27,000

27,000
→ 19,000 Job 650
→ 3,000 Job 651
→ 5,000 MOH

entry:

WIP Job 650, 651 22,000
MOH 5,000

wages payable

27,000

wages payable

27,000

WIP

6,000

22,000

MOH

15,000

5,000

Transaction 4: Machine Depreciation = 26,000
Other MOH = 33,100

entry:

MOH

59,100

Acc. Dep

26,000

Acc. payable

33,100

□ Allocation of indirect Cost : تكاليف غير مباشرة

□ Normal Costing : التكلفة العادية

↳ allocates indirect cost based on the budgeted cost rates times the actual quantities of the cost allocation bases

لـ تكاليف غير مباشرة بناءً على
لـ معدلات التكلفة غير مباشرة لدرجة هي
الميزانيات المطلوبة في الكميات الفعلية لقاعدة التكلفة

□ First : Compute the Rate per unit of each Cost-Allocation base used to allocate indirect Cost to the Job

أولاً لـ احتساب معدل لكل قاعدة لتكاليف غير مباشرة
لتكاليف غير مباشرة

$$\text{Budgeted Manufacturing over head rate} = \frac{\text{Budgeted MOH Cost}}{\text{Budgeted total Quantity of cost Allocation Base}}$$

second ⁸ Compute the indirect cost allocated to the job

Budgeted Allocation Base \times Actual Base Activity For the job

معدل التوزيع المخطط \times النشاط الفعلي للمهمة

□ Example 8 Assume that the Manufacturing Company budget 60,000 for total Manufacturing overhead Cost and 2,400 machine-hours

what is the budgeted indirect Cost rate?

$$\rightarrow \text{Budgeted MOH rate} = \frac{60,000}{2,400 \text{ M/h}} = 25 / \text{Machine h}$$

Example 8 How much indirect Cost should be allocated to Job 850 and 651, Assuming they incurred 500 and 1480 Machine hours respectively?

$$\text{MOH Allocated to Job 650} = 25 / \text{Machine.h} \times 1000 \text{ machine.h} \\ = 25,000$$

$$\text{MOH Allocated to Job 651} = 25 / \text{Machine.h} \times 1980 \text{ machine.h} \\ = 49,500$$

$$\text{Total MOH Allocated} = 74,500$$

19

entry →

WIP inv - Job 650 - 651 74,500

MOH Allocated 74,500

WIP

DM 60,000

DL 22,000

MOH 74,500

All

156,500

Q Assume Job 650 is Completed and sold for 150,000 on Account, what are the required Journal entry

first 8 Finished goods 650 94,000

WIP inv 650 94,000

second 8 C.O.G.S 94,000

Finished goods 94,000

Account Receivable 150,000

Sales 150,000

94,000 → 50,000 + 14,000 + 25,000

Job 650 JL 25,000

10

□ Accounting for Overhead

□ Recall that two different overhead account were used in the preceding journal entries:

□ Manufacturing overhead Control was debited for the actual overhead costs incurred

لم يتم تحميل الرقابة العامة على التبع من التكاليف العامة الفعلية، التكلفة

□ Manufacturing overhead allocated was credited for estimated (budgeted) overhead applied to production through the **WIP** account

لم يتم تحميل التكاليف العامة (خدمة التبع) ~~التي كانت~~ الخدمة العامة للموظفات العامة التقديرية (خدمة في ميزانية) (خدمة على) التبع من خلال حساب العمل الجاري

□ Back to MOH and MOH Allocated

MOH	MOH Allocated
79,100	74,500

Difference = 4,600



□ Actual Cost will almost never equal budget Cost

→ an imbalance situation exists between the two overhead accounts.

□ MOH overallocated

if $MOH < MOH_{allocated}$

□ MOH underallocated

if $MOH > MOH_{allocated}$

□ The difference between the overhead accounts will be eliminated in the end of period adjusting entry process, in the two possible methods:

لإزالة الفرق بين MOH allocated, MOH
هناك طريقتين

□ Proportion approach

↳ The Difference allocated between Cost of Goods sold, WIP, Finished good based on size

لذلك يتم توزيع الفرق بين الـ FG, WIP, COGS حسب حجمها

[2] write-off approach

↳ The Difference is simply written off to
Cost of Good sold

لأنه، هذا يتم شطب الفرق ببساطة لتكلفة البيع
بإيجاز

هنا حل سؤال مهم جداً (السؤال موجود بالأسفل)

الكل

[1] entries

Direct Raw material	121,000
Account payable	121,000

Direct Material used

$$\begin{aligned} &= \text{Beg.} + \text{purchased} - \text{Ending} \\ &= 9,400 + 121,000 - 18,000 \\ &= 112,400 \end{aligned}$$

Beg. 9,400

purch. 121,000

End. 18,000

D.M

used. 112,400

[2] entries

work in process	112,400
Direct Raw material	112,400

[3] Entry

work in process	87,000	
Manufactor overhead	54,400	
wages payable		141,400

[4] Entry

<p>ادخل ادخلها، ذلك مؤكلان وإلى entry</p>	→ Depreciation expense	53,000	
	Accumulated Depreciation		53,000
	→ Manufactor overhead	53,000	
	Depreciation expense		53,000

→ Entry

Manufactor over head	53,000	
Accumulated Depreciation		53,000

[5] Entry

Depreciation expense	7,700	
Accumulated Depreciation		7,700

[6] Entry

Manufactor over head	46,000	
Account payable		46,000

[Maintenance] للصيانة العامة للألات

[4]

[7] *entry* *debit*
Manufacture over head 9,100
Account payable 9,100

[8] *entry*
Manufacture over head 99,000
Rent payable 99,000

[9] *entry*
Advertising expense 97,000
Sales Commissions 39,000
Account payable 136,000

MOH	
IDL	54,400
Dep.	53,000
Main.	46,000
Mis.	9,100
Rent.	99,000
Total 261,500	

Total MOH
= 261,500

لم يكن يجب ان نحسب ال
MOH allocated
normal Costing ← لم يكن دقيق

□ normal Costing

$$\text{Budgeted MOH Rate} = \frac{\text{Budgeted MOH}}{\text{Budgeted Allocated Base}}$$

→ = 3.10 / DL cost ← لم نضرب الـ DL في الـ 3.10

$$\square \text{ DL Cost} = 87,000$$

$$\text{MOH Allocated} = 3.10 / \text{DL Cost} \times 87,000 = 269,700$$

MOH Allocated

269,700

entry

WIP inv.

269,700

MOH All

269,700

Work in Process

Beg. 6,500
 DM. 112,400
 DL. 87,000
 MOH All 269,700

COGM. 449,600

End. 26,000

Cost of goods Manufactured

$$= [\text{Beg} + \text{DM} + \text{DL} + \text{MOH All}] - \text{End}$$

$$= 475,600 - 26,000$$

$$= 449,600$$

□ entry

Finished good inv

449,600

work in process inv

449,600

F G

Beg 60,000
 COGM 449,600

End 31,000

Cost of goods sold

$$= \text{TFCG} - \text{EFCG}$$

$$= 478,600$$

COGS

□ Entry

Cost of goods sold
Finished goods inv

478,600

478,600

Cost of goods sold

478,600

□

في حال تم البيع على الدب

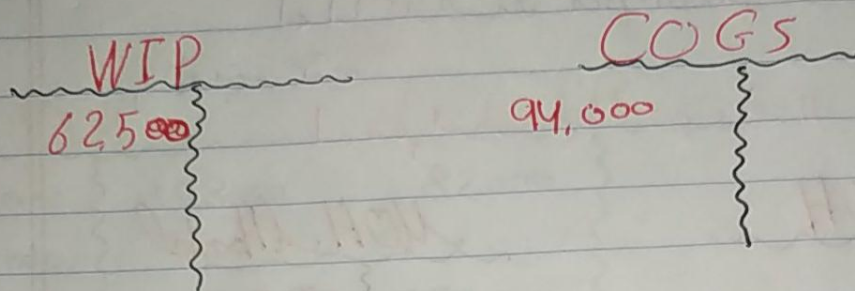
entry →

Account Receivable
Sales

xxx

xxx

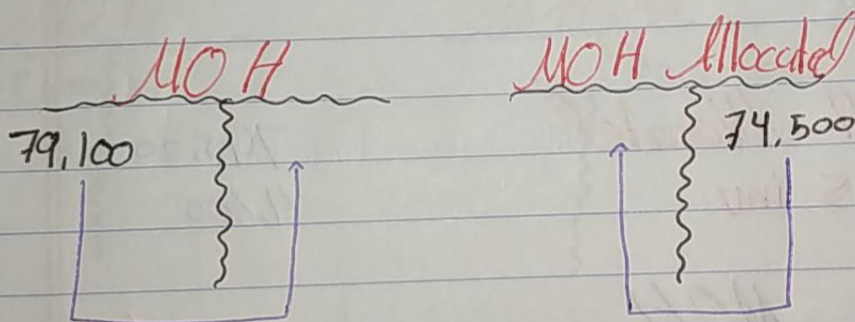
دو ذکات علی، الخصال فی، الاستدلال



Proration approach ← حسب الطريقة

لأنه يتم فيه الطريقة

material (لأنه غير قابل كان السؤال)



entries

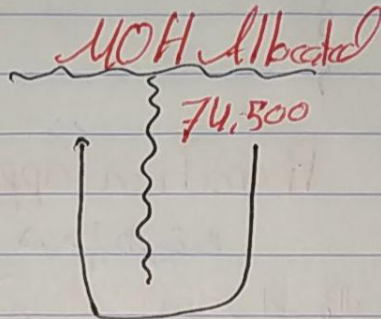
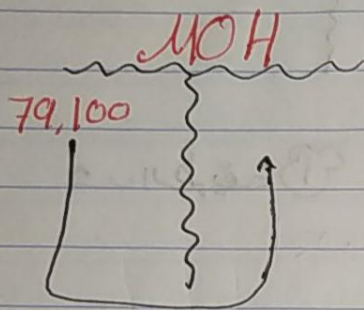
MOH Allocated	74,500
WIP inv. $\frac{62,500}{62,500 + 94,000} \times 4,600$	1837
COGS inv. $\frac{94,000}{62,500 + 94,000} \times 4,600$	2763
MOH	79,100

write-off approach ٢٣ سبب الطريقة

لماذا كان السؤال immaterial تتفهمه

الطريقة كانت

COGS لم يتم انهاء بيعها مع الجوان



entry:

MOH Allocated
COGS inv

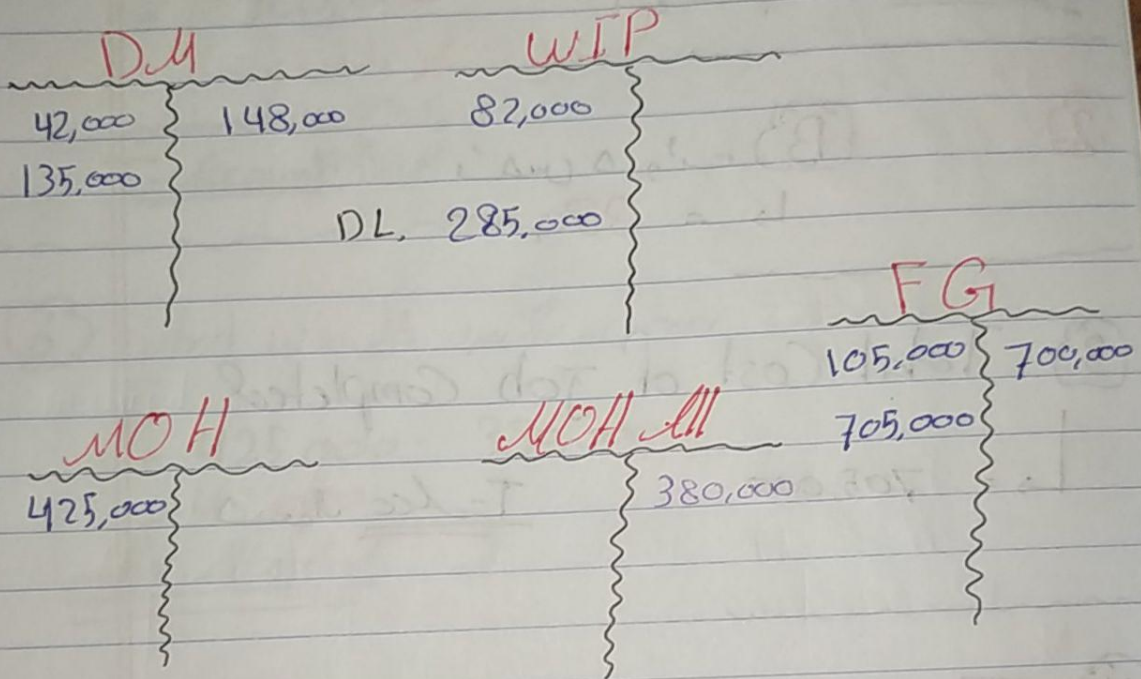
74,500
4,600

MOH

79,100

حل القاري، الحلوية ←

Exercise 1:



$$\textcircled{a} \text{ DL} = \frac{285,000}{15}$$

$$\text{Rate} = 15$$

$$= 19,000 \text{ h}$$

$$\textcircled{b} \text{ MOH Allocated}$$

$$\text{Rate} = 20$$

$$= 20 / \text{DL.h} \times 19,000$$

$$= 380,000$$

① Direct Material issued
= 148,000

T-Accounts له حساب

② (B) ريس حساب
↳ = 380,000

③ Total Cost of job Completed

↳ = 705,000

T-Acc له حساب

④ The Balance of WIP inv

$$\begin{aligned} &= \text{Beg WIP} + (\text{DM} + \text{DL} + \text{MOH All}) - \text{Ending} \\ &= 82,000 + (148,000 + 285,000 + 380,000) \\ &= 82,000 + 813,000 - \text{COGM} \\ &= 82,000 + 813,000 - 705,000 \\ &= \underline{\underline{190,000}} \end{aligned}$$

5) Cost of goods sold Before proration

$$= 700,000$$

قبل تكبير الفرق

الواضع

T-accounts في ال

6) what was the under or over Allocated

$$= 425,000 - 380,000$$

$$= 45,000$$

under Allocated

Exercise 28

13

WIP Job 211

DM 4000

DL 6000

MOH 9000

19,000

WIP Job 210

DM 7000

DL 3000

MOH 12000

27,000

$$\rightarrow 27,000 + 19,000 \\ = 46,000$$

2

Job 210

MOH = Rate \times Allocation Base

$$12,000 = ? \times 8000$$

$$\text{Rate} = \frac{12,000}{8000} = \underline{\underline{1.5}}$$

Job 211

MOH = Rate \times Allocation Base

$$9000 = ? \times 6000$$

$$\text{Rate} = \frac{9000}{6000} = \underline{\underline{1.5}}$$

③ new MOH Rate = old MOH Rate \times 1.2

$$= 1.5 \times 1.2$$

$$= 1.8 / \text{DL cost}$$

100% + 20%

$$\rightarrow 1.8 \times 10,000 = 18,000$$

بالرجوع إلى الـ T-acc

$$\rightarrow 1.8 \times 15,000 = 27,000$$

$$\rightarrow 18,000 + 27,000 = 45,000$$

④	Job	DL	DL	MOH	all
	210	7,000	8,000	12,000	
		8,500	10,000	18,000	
		5,500	15,000	27,000	
		</			

$$\text{Total} = 111,000$$

$$\text{Per unit} = \frac{111,000}{1,500} = \underline{\underline{74 / \text{unit}}}$$

5.

Job 211

new Rate = 1.8

$$\rightarrow 1.8 \times 8000 = 14,400$$

$$\rightarrow 1.8 \times 12,000 = 21,600$$

$$\rightarrow 14,400 + 21,600 = 36,000$$

DM

4000

9000

7000

DL

6000

8000

12,000

MOH

9000

14,400

21,600

20,000

+

26,000

+

45,000 = 91,000

$$WIP = DM + DL + MOH$$

$$= 20,000 + 26,000 + 45,000$$

$$= 91,000$$

20