



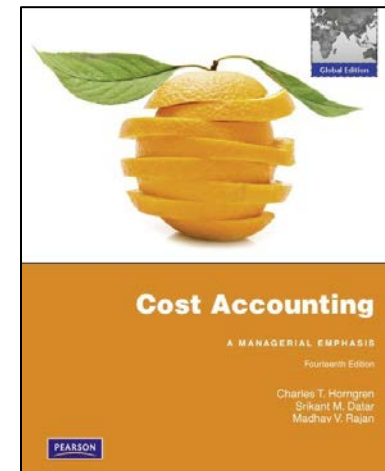
Institute of Accounting, Control
and Auditing

University of St.Gallen

MAccFin – Master of Arts in Accounting and Finance
Pflichtwahlfach
7,116,1.00 Techniken im Management Accounting

Job Costing Theorie & Cases

HDR, 14ed, Chapter 4



Job Costing versus Process Costing

Job-costing systems

**(Kostenrechnung für
Einzelauftrags-
Fertigung)**

**verschiedenartige,
identifizierbare
Produkte/
Dienstleistungen (z.B.
Spezialanfertigung von
Maschinen und
Häusern)**

Operation-costing systems

**(Kostenrechnung für
Spezial-(Serien-)
Fertigung)**

**Kombination von
Process- und Job-
Costing-Systemen (z.B.
Fenstergläser mit
Spezialbeschichtung,
Autos mit
Sonderausstattung)**

Process- costing systems

**(Kostenrechnung für
Massenproduktion)**

**Ansammlung von
identischen oder
ähnlichen Produkten/
Dienstleistungen (z.B.
Nahrungsmittel,
Chemikalien)**

Job Costing versus Process Costing: Beispiele

HORNGREN, DATAR, FOSTER. ¹²2005. Cost Accounting. Exhibit 4-1, S. 100.

	Service Sector	Merchandising Sector	Manufacturing Sector
Job Costing Used	<ul style="list-style-type: none"> • Audit engagements done by Price WaterhouseCoopers • Consulting engagements done by McKinsey & Co. • Advertising-agency campaigns run by Ogilvy and Mather • Individual legal cases argued by Hale & Dorr • Computer-repair jobs done by CompUSA • Movies produced by Universal Studios 	<ul style="list-style-type: none"> • L. L. Bean sending individual items by mail order • Special promotion of new products by Wal-Mart 	<ul style="list-style-type: none"> • Assembly of individual aircrafts at Boeing • Construction of ships at Litton Industries
Process Costing Used	<ul style="list-style-type: none"> • Bank-check clearing at Bank of America • Postal delivery (standard items) by U.S. Postal Service 	<ul style="list-style-type: none"> • Grain dealing by Arthur Daniel Midlands • Lumber dealing by Weyerhaeuser 	<ul style="list-style-type: none"> • Oil refining by Shell Oil • Beverage production by PepsiCo

Ist-, «Normal-» und Standardkostenrechnung

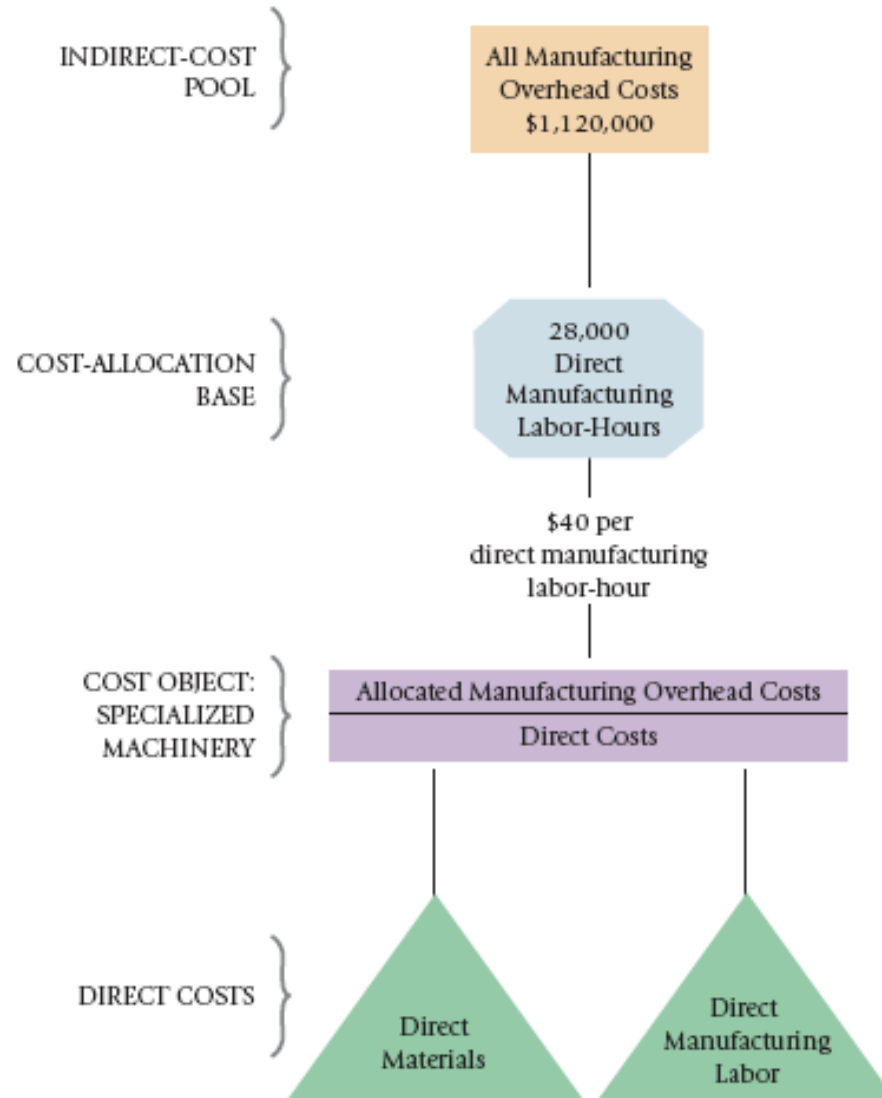
	Istkostenrechnung¹	Normalkostenrechnung²	erweiterte Normalkostenrechnung³	Standardkostenrechnung⁴
Einzelkosten⁵	Ist-Preis ⁶ mal Ist-Menge ⁷	Ist-Preis mal Ist-Menge	Budget-Preis mal Ist-Menge	Standard-Preis mal standardmässig zulässige Input- Menge zur Erreichung des effektiven Output ⁸
Gemeinkosten⁹	Ist- Gemeinkostensatz ¹⁰ mal effektiv verbrauchte Gemeinkostensatz- Treiber-Einheiten ¹¹	Budget- Gemeinkostensatz mal effektiv verbrauchte Gemeinkostensatz- Treiber-Einheiten	Budget- Gemeinkostensatz mal effektiv verbrauchte Gemeinkostensatz- Treiber-Einheiten	Standard- Gemeinkostensatz mal standardmässig zulässiger Input an Gemeinkostensatz- Treiber-Einheiten zur Erreichung des effektiven Output ¹²

-
- 1 actual costing
2 normal costing
3 extended normal costing
4 standard costing
5 direct costs
6 actual direct-cost rate(s)

- 7 actual input(s) of direct-cost used
8 standard input(s) of direct cost allowed for actual output achieved
9 indirect costs or overhead
10 actual indirect-cost rate(s)
11 actual input(s) of cost-allocation base(s) used
12 standard input(s) of cost-allocation base(s) allowed for actual output achieved

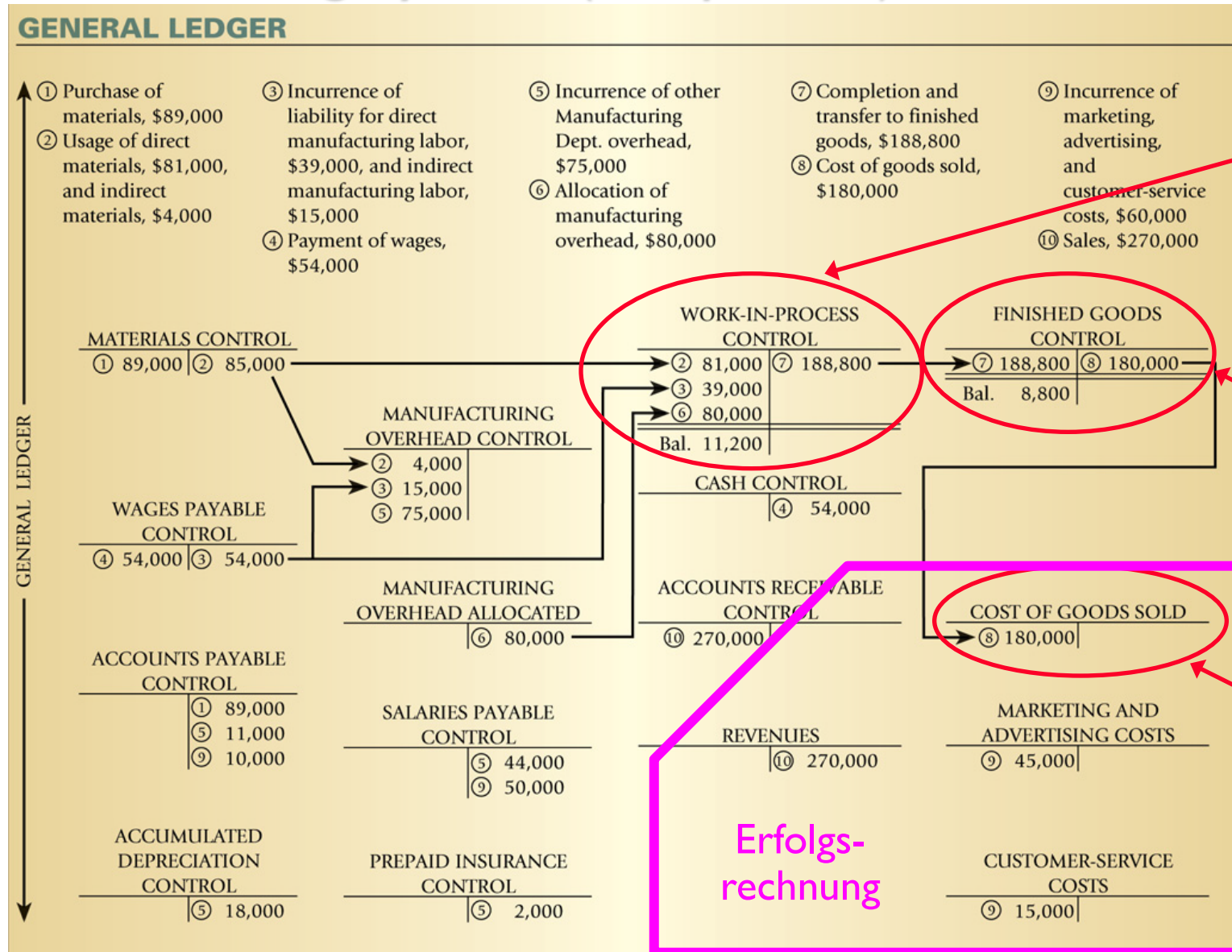
Job Costing Overview

vgl. Horngren, Datar, Rajan. Cost Accounting: A Managerial Emphasis. 14 ed. Boston: Pearson



Beispiel der Verbuchungstechnik im Job-Costing-System (Hauptbuch)

HORNGREN, DATAR, FOSTER. 12005. Cost Accounting. Exhibit 4-6, S. 110.



Ware-in-Arbeit
(Halb-fabrikate):
+/- Δ
Bestand

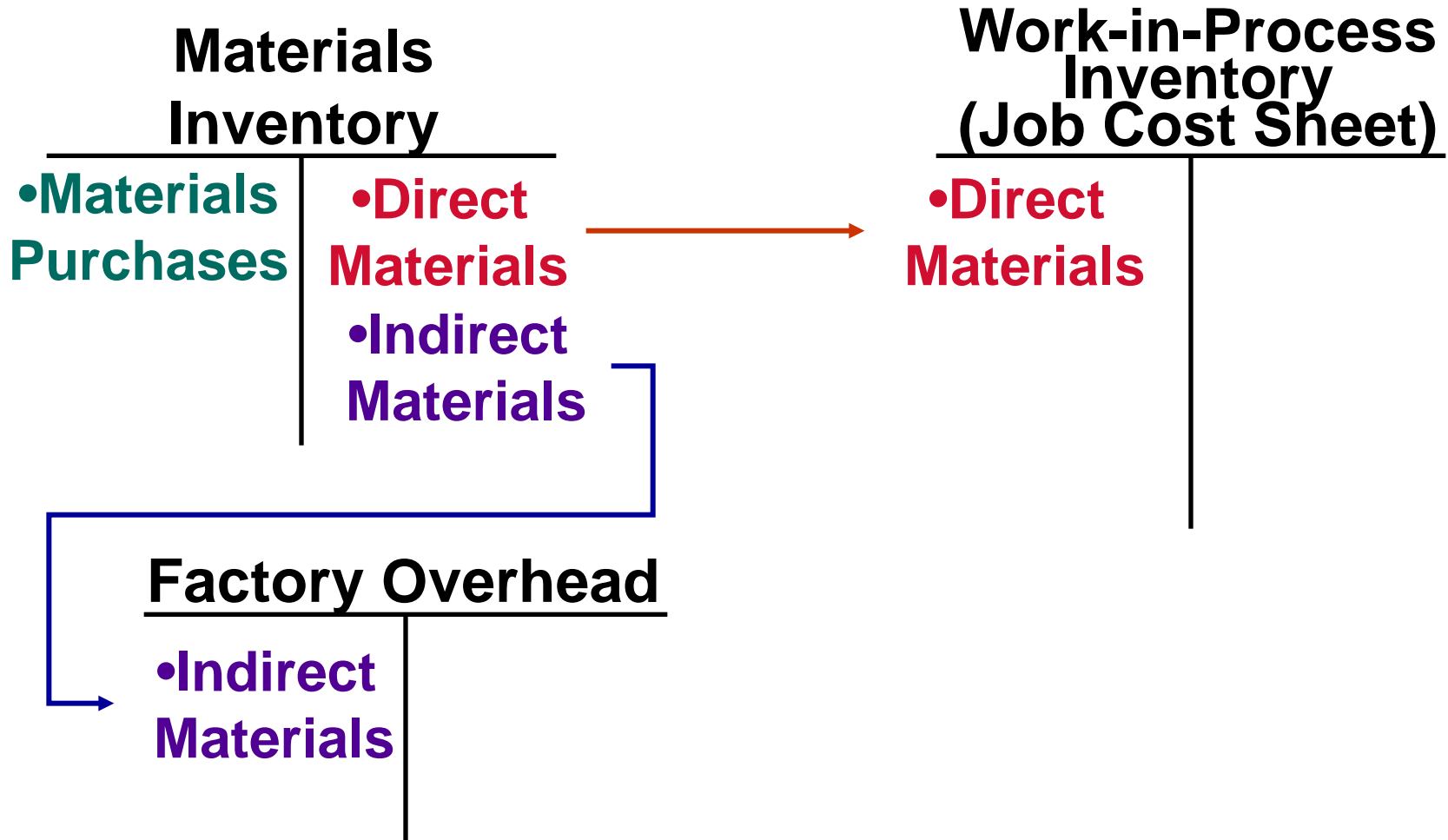
Fertig-fabrikate:
+/- Δ
Bestand

Herstell-kosten
der
verkauften
(Fertig-) Fabrikate

Erfolgs-rechnung

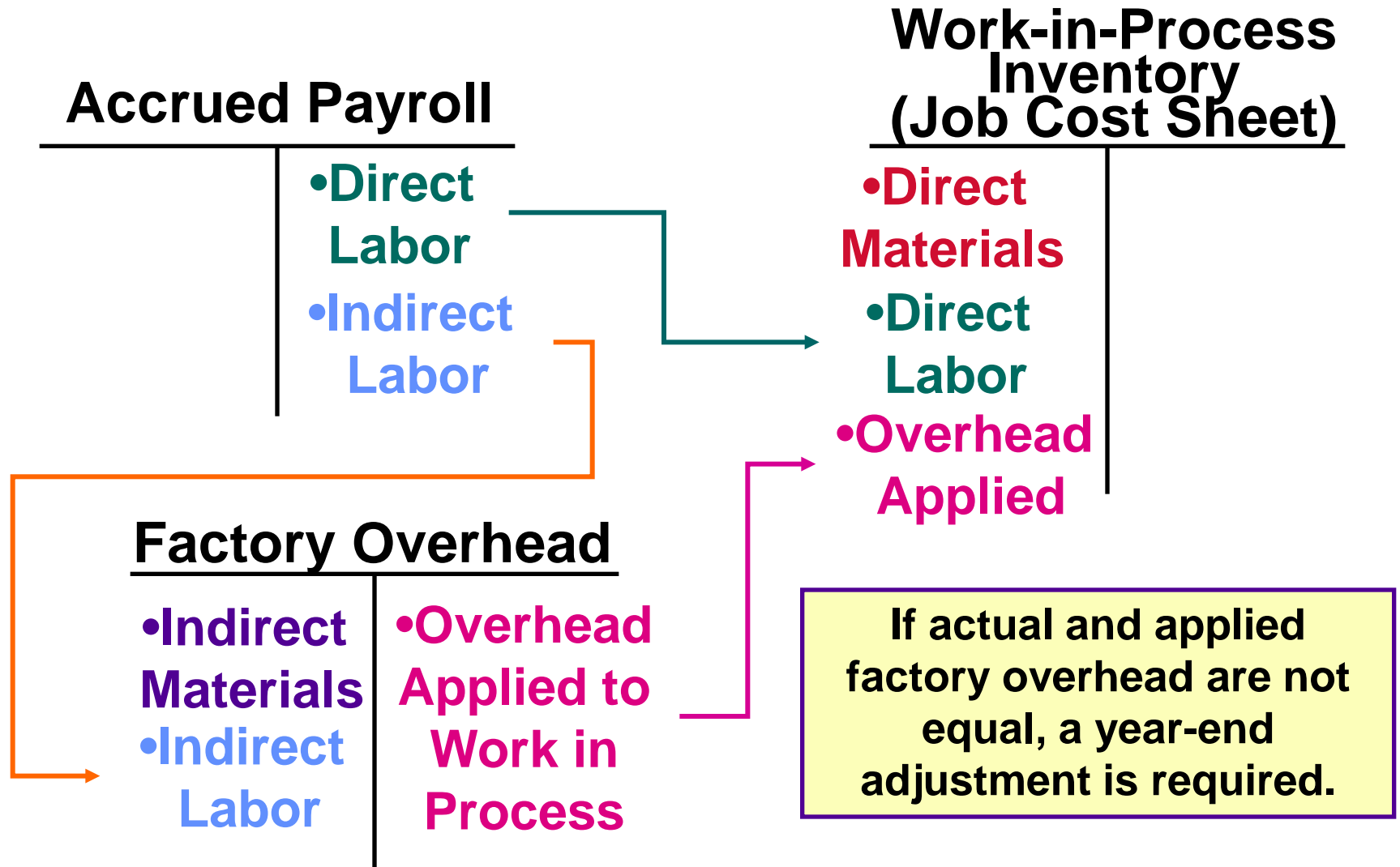
Kostenfluss im Detail: Kostenerfassung der Einzelmaterial und Materialgemeinkosten

BLOCHER, CHEN, COKINS, LIN. 32005. Cost Management. PowerPoint-Präsentation, Chapter 4, Folie 25.



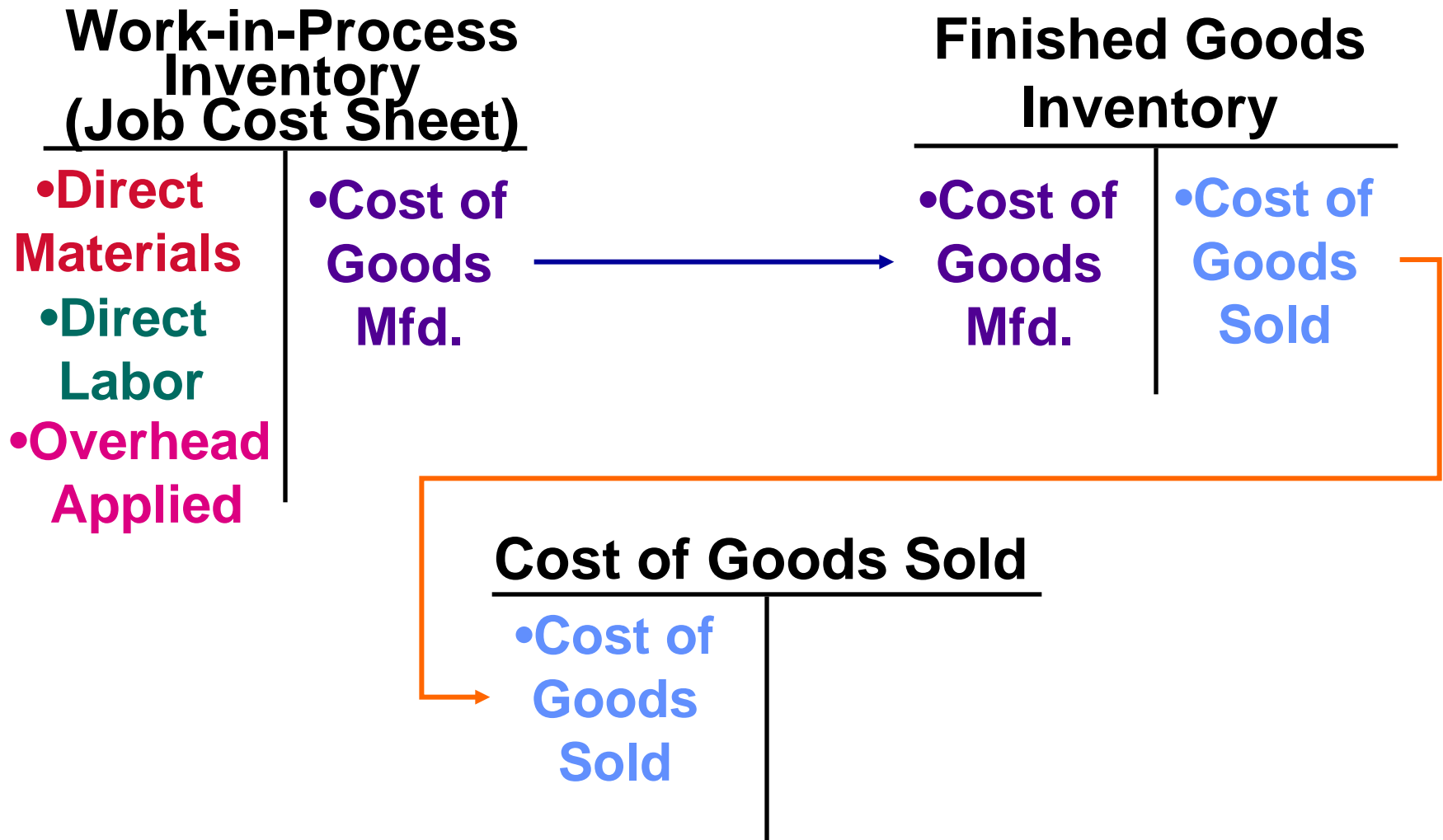
Kostenfluss im Detail: Kostenerfassung der Einzellöhne, Gemeinkostenlöhne sowie der Gemeinkostenzuweisung

BLOCHER, CHEN, COKINS, LIN. 32005. Cost Management. PowerPoint-Präsentation, Chapter 4, Folie 26.

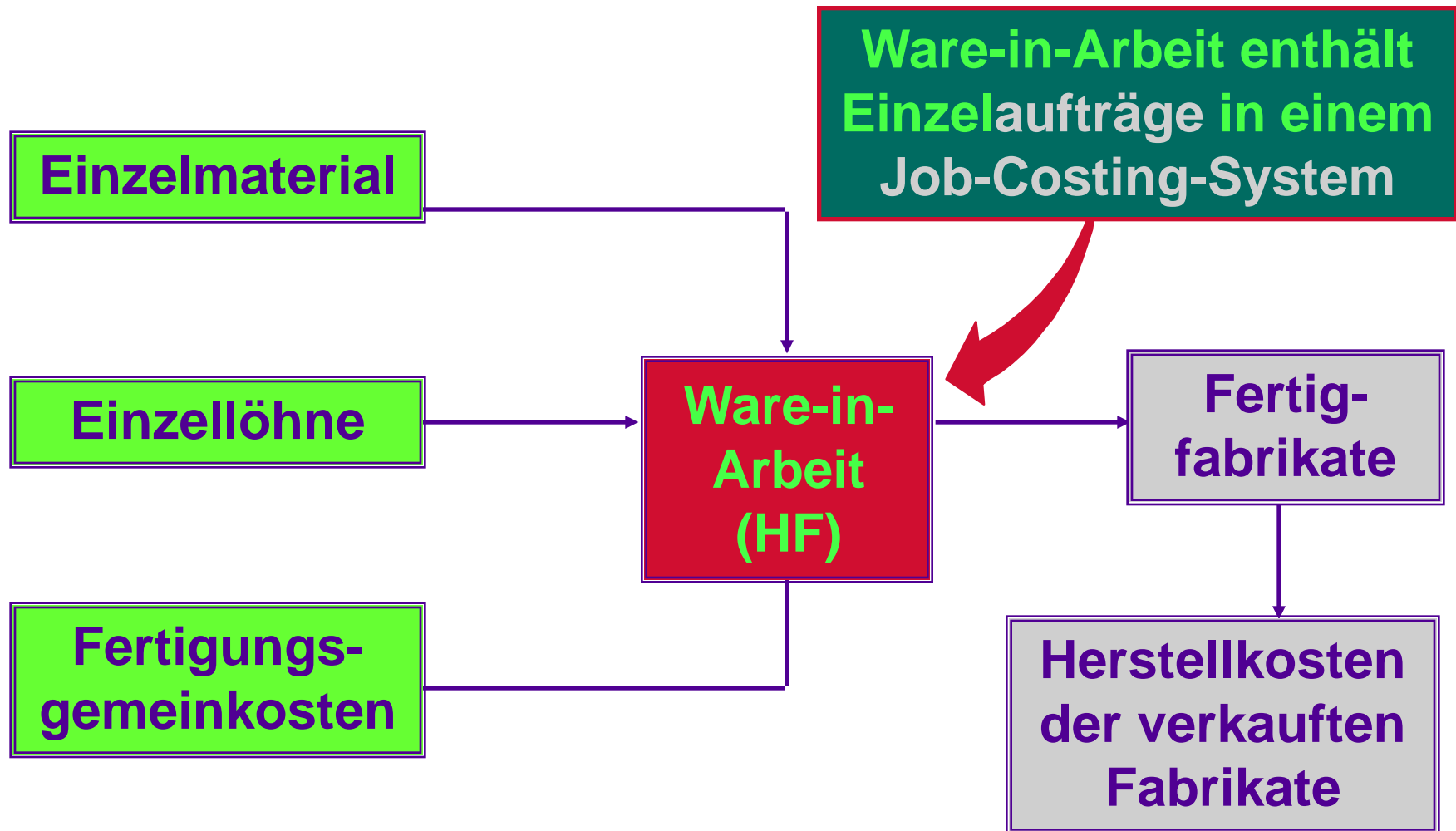


Kostenfluss im Detail - Kosten-Erfassung der fertiggestellten und verkauften Produkte

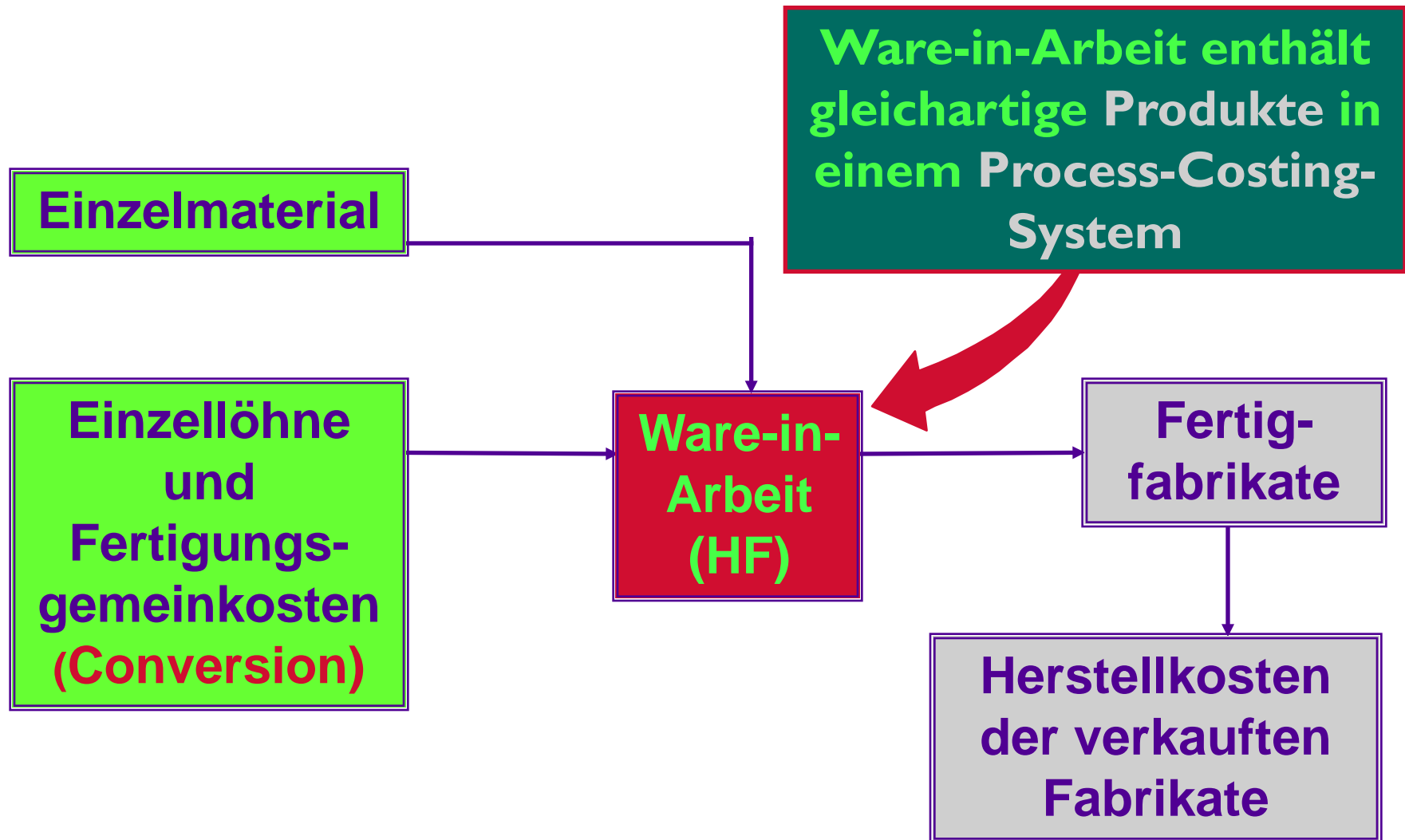
BLOCHER, CHEN, COKINS, LIN. 32005. Cost Management. PowerPoint-Präsentation, Chapter 4, Folie 27.



Job Costing versus Process Costing - Forts.



Job Costing versus **Process Costing** - Forts.



HDR, 14ed, Problem 4-20, Lynn Company

4-20 Job costing, accounting for manufacturing overhead, budgeted rates. The Lynn Company uses a normal job-costing system at its Minneapolis plant. The plant has a machining department and an assembly department. Its job-costing system has two direct-cost categories (direct materials and direct manufacturing labor) and two manufacturing overhead cost pools (the machining department overhead, allocated to jobs based on actual machine-hours, and the assembly department overhead, allocated to jobs based on actual direct manufacturing labor costs). The 2011 budget for the plant is as follows:

	Machining Department	Assembly Department
Manufacturing overhead	\$1,800,000	\$3,600,000
Direct manufacturing labor costs	\$1,400,000	\$2,000,000
Direct manufacturing labor-hours	100,000	200,000
Machine-hours	50,000	200,000

HDR, 14ed, Problem 4-20, Lynn Company - Forts.

❖ Required

1. Present an overview diagram of Lynn's job-costing system. Compute the budgeted manufacturing overhead rate for each department.
2. During February, the job-cost record for Job 494 contained the following:

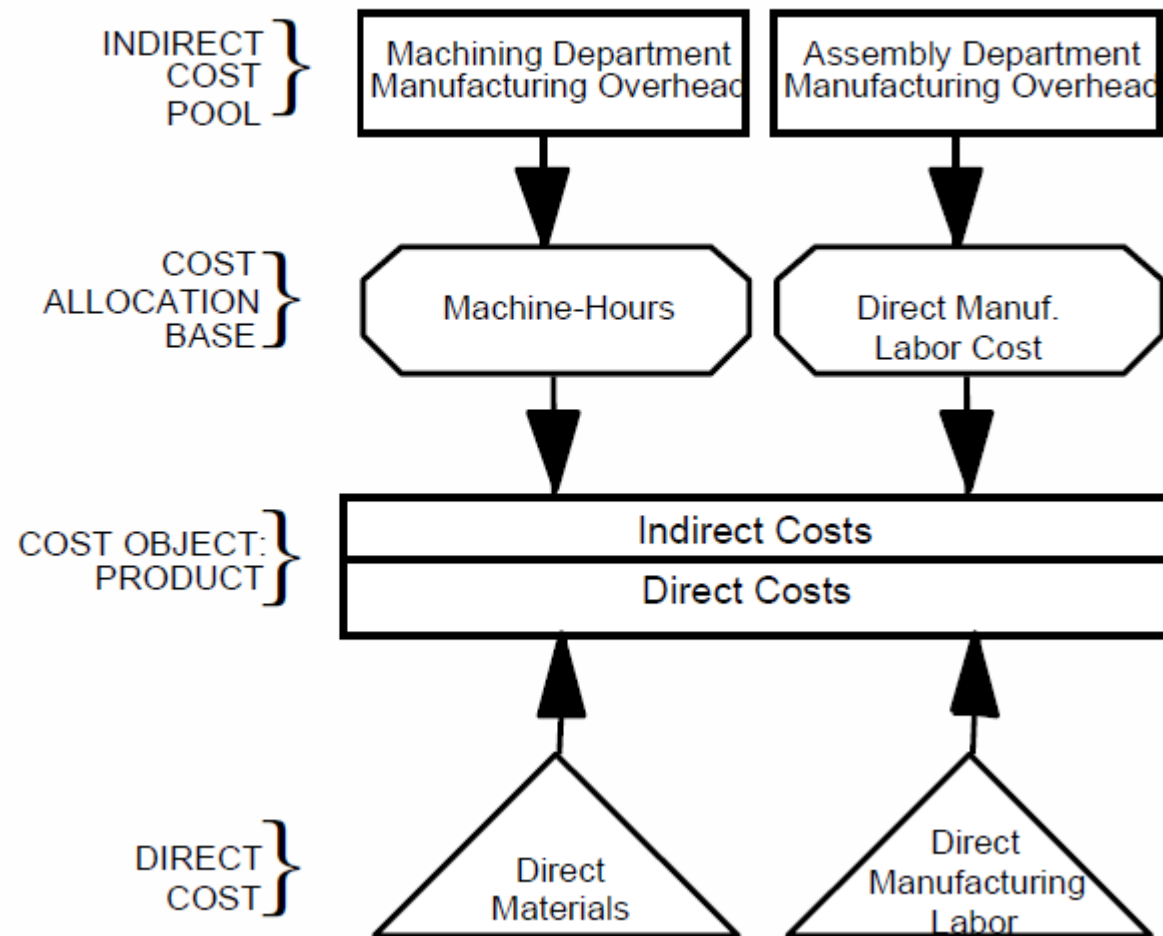
	Machining Department	Assembly Department
Direct materials used	\$45,000	\$70,000
Direct manufacturing labor costs	\$14,000	\$15,000
Direct manufacturing labor-hours	1,000	1,500
Machine-hours	2,000	1,000

Compute the total manufacturing overhead costs allocated to Job 494.

3. At the end of 2011, the actual manufacturing overhead costs were \$2,100,000 in machining and \$3,700,000 in assembly. Assume that 55,000 actual machine-hours were used in machining and that actual direct manufacturing labor costs in assembly were \$2,200,000. Compute the over- or underallocated manufacturing overhead for each department.

HDR, 14ed, Problem 4-20, Lynn Company - Lösungsvorschlag zu 1.

An overview of the product costing system is



HDR, 14ed, Problem 4-20, Lynn Company - Lösungsvorschlag zu 1. - Forts.

2011 budget

	<u>Machining Department</u>	<u>Assembly Department</u>
Manufacturing overhead	1'800'000.00	3'600'000.00
Direct manufacturing labor costs	1'400'000.00	2'000'000.00
Direct manufacturing labor-hours	100'000	200'000
Machine-hours	50'000	200'000

Budgeted manufacturing overhead rate	36.00	180%
	per actual machine-hours	of actual direct manufacturing labor costs

HDR, 14ed, Problem 4-20, Lynn Company - Lösungsvorschlag zu 2.

<u>Actual February job-cost record for Job 494</u>	<u>Machining Department</u>	<u>Assembly Department</u>
Manufacturing overhead	45'000.00	70'000.00
Direct manufacturing labor costs	14'000.00	15'000.00
Direct manufacturing labor-hours	1'000	1'500
Machine-hours	2'000	1'000
Manufacturing overhead costs allocated to Job 494	72'000.00	27'000.00
	99'000.00	

HDR, 14ed, Problem 4-20, Lynn Company - Lösungsvorschlag zu 3.

Actual end 2011

Manufacturing overhead	2'100'000.00	3'700'000.00
Machine-hours	55'000	
Direct manufacturing labor costs		2'200'000.00
Manufacturing overhead costs <u>allocated</u>	1'980'000.00	3'960'000.00
Overallocation (-) / Underallocation (+)	120'000.00	-260'000.00

HDR, 14ed, Problem 4-23, Pittsburgh Forging Company

4-23 Accounting for manufacturing overhead. Consider the following selected cost data for the Pittsburgh Forging Company for 2011.

Budgeted manufacturing overhead costs	\$7,500,000
Budgeted machine-hours	250,000
Actual manufacturing overhead costs	\$7,300,000
Actual machine-hours	245,000

The company uses normal costing. Its job-costing system has a single manufacturing overhead cost pool. Costs are allocated to jobs using a budgeted machine-hour rate. Any amount of under- or overallocation is written off to Cost of Goods Sold.

HDR, 14ed, Problem 4-23, Pittsburgh Forging Company - Forts.

❖ Required

1. Compute the budgeted manufacturing overhead rate.
2. Prepare the journal entries to record the allocation of manufacturing overhead.
3. Compute the amount of under- or overallocation of manufacturing overhead. Is the amount material? Prepare a journal entry to dispose of this amount.

HDR, 14ed, Problem 4-23, Pittsburgh Forging Company - Lösungsvorschlag zu 1.

❖ Budgeted manufacturing overhead rate =

$$= \frac{\$ 7'500'000 \text{ budgeted man. overhead costs}}{250'000 \text{ budgeted machine-hours}} =$$

= \$30 per machine-hour

HDR, 14ed, Problem 4-23, Pittsburgh Forging Company - Lösungsvorschlag zu 2.

Work-in-Process Control	7,350,000
Manufacturing Overhead Allocated	7,350,000

[245,000 actual machine-hours · \$30 per machine-hour = \$7,350,000]

HDR, 14ed, Problem 4-23, Pittsburgh Forging Company - Lösungsvorschlag zu 3.

❖ $\$7,350,000 - \$7,300,000 = \$50,000$ overallocated,
an insignificant amount of actual manufacturing
overhead costs $\$50,000 \div \$7,300,000 = 0.68\%$.

Manufacturing Overhead Allocated	7,350,000
Manufacturing Department Overhead Control	7,300,000
Cost of Goods Sold	50,000

HDR, 14ed, Problem 4-23, Pittsburgh Forging Company - Lösungsvorschlag zu 3. - Forts.

