



Mi Universidad

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Nombre del tema: costos directo

Unida: 4

Nombre de la Materia: costos y presupuestos I

Nombre del profesor: ARQ. Juan Antonio Álvarez

Nombre de la Licenciatura: Arquitectura

Cuatrimestre: 5

Fecha: 29/03/2025

18/03/2024

MANO DE OBRA

- * Salario Minimo
- * Mercado de Construcción
- * factores Naturales
- * Factores fisicos



\$

> Peon → \$ 2,000

> Albañil → \$ 3,000

> Mtro. Albañil → ?

> Carpintero albañil → \$ 700

Jornal → 8 hrs...

- fierre
- Especialista electrico

- Carpintero de obra
- Instalaciones

$5P \times 2000 = 10,000$

$5A \times 3000 = 15,000$
\$25,000

$\frac{57.7}{10} = 6 \text{ dias}$
71900

7m² = Rendimiento de 1 albañil y 1 peon

CMIC

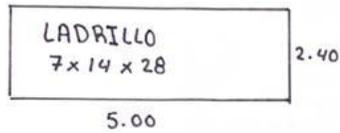
Concepto	Rendimiento/Jornal	
L. T. N.	42 m ² / 4 peones 1 albañil	200 m ² 4 peones 1 albañil
Muro tabique	7 m ²	400 m ² Maestro albañil.
Cimbra	9 m ²	
Castillo y cadena	7.5 ml	

Albañil	\$ 500
Peon	\$ 333
Carpintero	\$ 466 - 500
Yesero	\$ 500
Plomero	\$ 416
Azulagero	\$ 583
Electricista	\$ 416 - 450
Pinor	\$ 383 - 400
Velador	\$ 416
fierrero	\$ 450
Soldador	\$ 750 - 833

20/03/2025

Barda sin castillos

JORNAL — 8 Hrs.



JOR = 7.00 m^2
 Peon \$386.00
 Albañil \$500.00

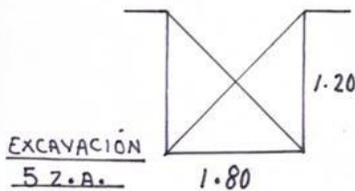
$5 \times 2.4 = 12 \text{ m}^2 \times 38.89 = 467 \text{ PZAS} \times \$8 = \$3736$
 $7 \text{ m}^2 = 1 \text{ dia jornal } \frac{12 \text{ m}}{7 \text{ m}} = 1.71 \text{ m}$
 Peon \$386 $\times 1.71 \text{ m} = \625.86
 Albañil \$500 $\times 1.71 \text{ m} = \855

Precio Material $467 \text{ PZAS} \times \$8 = \$3,736.00$
 Precio M.O. $\rightarrow \$1,480.86$
 Total
 Costo Directo = \$5,216.00

Excavación Zapata Aislada

JORNAL — 8 Hrs.

$$1.8 \times 1.8 \times 1.20 = 3.88 \times 5 \text{ PZAS} = 19.44 \text{ m}^3 / 2 \text{ m}^3 = 9.72$$

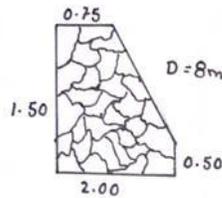


$$\text{Peon } \$366 \times 9.72 = \$3557.52$$

JOR = 2 m^3

Precio M.O. $\rightarrow \$3557.52$
 Total
 Costo directo

Muro de piedra



$$\text{Jornal} = 2 \text{ m}^3$$

$$M^3 = \frac{19.00 \text{ m}^3}{2 \text{ m}^3} = 9.5$$

$$\frac{2500}{6 \text{ m}^3} = 416.66 \times 19.00 = 7916.66 \rightarrow \text{Material}$$

$$\text{Ayudante} = \$3,477$$

$$\text{Albañil} = \$4,750$$

$$\text{Mano de obra} = \$8227$$

$$\text{Precio Material} = \$7916.66$$

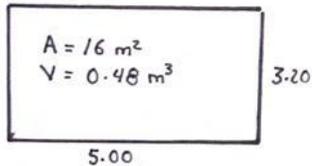
$$\text{Precio M.O.} \rightarrow \$8227$$

Total

$$\text{Costo directo} = \$16,143.66$$

Aplanado en Muro

Esp. 0.03



$$\frac{16 \text{ m}^2}{12} = 1.33$$

$$\text{Cemento} = 0.48 \text{ m}^3 \times 0.286 = 0.137 \times 1000 = \frac{137}{50} = 3 \text{ B} \times \$224 = \$672$$

$$\text{Arena} = 0.48 \text{ m}^3 \times 1.248 = 0.59904 = \$333.33$$

$$\text{Ayudante} = \$366 \times 1.33 = \$486.78$$

$$\text{Albañil} = 500 \times 1.33 = \$665$$

$$\text{JOR} = 12 \text{ m}^2$$

$$\text{Precio Material} = \$1,005$$

$$\text{Precio M.O.} \rightarrow \$1,151.78$$

Total

$$\text{Costo Directo} = \$2,156.78$$

5 Puertas Metalicas



$$\frac{5 \text{ P}}{2 \text{ P}} = 2.5$$

$$\text{Ayudante} = \$366$$

$$\text{Soldador} = \$832$$

$$\text{Ayudante} = \$915$$

$$\text{Soldador} = \$2080$$

$$\text{Precio Material} = \$4,450$$

$$\text{Precio M.O.} \rightarrow \$2995$$

Total

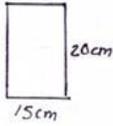
$$\text{Costo directo} = \$7445.00$$

$$\text{Jornal} = 2 \text{ Puertas}$$

$$1 \text{ Puerta} = \$890$$

23/03/2025

Cadena de desplante



Jornal 2.5m

$$\frac{14 \text{ mtr}}{2.5} = 5.6$$

$$\begin{aligned} \text{Ayudante} &= \$366 \times 5.6 = 2,049.6 \\ \text{Albañil} &= \$500 \times 5.6 = \underline{\$2,800.00} \\ \text{Total} &= \$4,849.6 \end{aligned}$$

← Cadena

$$\frac{320 \text{ mtrs}}{2.5} = 128 / 4 = 32 \text{ Dias}$$

1 semana

$$\begin{aligned} \text{Ayudante} &= \$46,848 \\ \text{Albañil} &= \$44,000 \\ \text{Total} &= \$110,848 \end{aligned}$$

3904 (4 Ayudantes) = 11,712
5333 (4 Albañiles) = 21,333.33

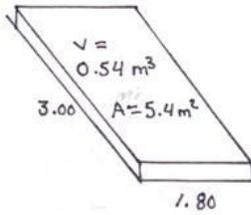
$$10 / 1.5 = 6.66$$

$$\begin{aligned} \text{Ayudante} &= \$366 \times 6.6 = \$2,415.6 \\ \text{Albañil} &= \$500 \times 6.6 = \underline{\$3,330} \\ \text{Total} &= \$5,745.6 \end{aligned}$$



27/03/2025

Losas de concreto armado

Concreto 200 kg/cm²

Materiales

Cemento = $0.54 \text{ m}^3 \times 0.348 = 0.187 \times 1000 = \frac{187}{50} = 48 \times \$225 =$ Varillas = 6 Pzas $\frac{3}{8}$ @ 125Grava = $0.54 \text{ m}^3 \times 0.630 = 0.3402 \times \333.33 Arena = $0.54 \text{ m}^3 \times 0.555 = 0.2997 \times \333.33

Alm. am. = 2 kg @ 40

TOTAL = \$2396.00

01. Colado de losa 1 m³
02. Emparillado de losa 9 m²
03. Cimbra de losa Común ~~9~~ 9 m²
04. Decimbrado 9 m²
05. Curado de losa 18 m² - 1 día
- 06

Ayudante	\$366 x 0.54 = \$197.64
Albañil	\$500 x 0.54 = \$270
fierrero	\$500 x 0.6 = \$300
Ayudante	\$366 x 0.6 = \$219.6
Carpintero	\$500 x 0.6 = \$300
Ayudante	\$366 x 0.6 = \$219.6
Albañil	\$500 x 0.6 = \$300
Ayudante	\$366 x 0.6 = \$219.6
Ayudante	\$366 x 0.3 = \$109.8

Cobrando el día
Completo \$3,830

Total = \$2136.24

Precio Material = \$2396

Precio M.O. = \$3,830

Total =

Costo directo = \$6,226 x 33% → ganancia