



# Mi Universidad

***ALUMNA: ANA CRISTELL GOMEZ RODRIGUEZ***

***MAESTRO: JUAN ANTONIO ALVAREZ***

***MATERIA: COSTOS Y PRESUPUESTOS I***

***TEMA: COSTO DIRECTO***

***PARCIAL: 4TO***

***LICENCIATURA: LICENCIATURA EN ARQUITECTURA***

***CUTRIMESTRE: 4TO***

# COSTOS

18/03/2025

## Mano de obra

- SALARIO MINIMO
- MERCADO DE CONSTRUCCIÓN
- FACTORES NATURALES
- FACTORES FISICOS

\$

PEON → \$ 2,000

ALBAÑIL → \$ 3,000

Mtr ALBAÑIL → \$

?

JORNAL  
8 hrs.....trabajo

7am - 5pm

IMSS

CMIC

CONCEPTO	Rend/ Jam
Limpieza TRAZO y NIVELACION	42m <sup>2</sup>
MURO TABIQUE	7m <sup>2</sup> / 400m <sup>2</sup> = 5%
CIMBRA COMUN ↓	9m <sup>2</sup>
ALBAÑIL →	500
PEON →	300

- Fierro
- Carpintero de obra
- Especialista Electrico
- Instalaciones

ALBAÑIL	\$ 3,000
PEON	\$ 2,000
CARPINTERO	\$ 2,800 - 3,000
YESERO	\$ 3,000
FIERRERO	\$ 2,700
PLOMERO	\$ 2,500
AZULAJERO	\$ 3,500
ELECTRICISTA	\$ 2,500 - 2,700
PINTOR	\$ 2,1500 - 2,400
VELADOR	\$ 2,500
SOLDADOR	\$ 4,500 - 5,000

$$400m^2 \div Edios = 80$$

$$80 \div 7m^2 = 12$$

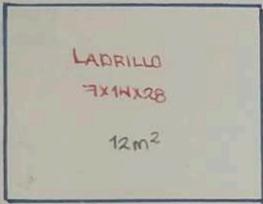
$$\text{ALBAÑIL } 600 \rightarrow 6 \text{ per} = 3,000$$

$$\text{PEON } 300 \rightarrow 6 \text{ per} = 1,800$$

$$\text{TOTAL} = 4,800 \times 5 = 24,000$$

20/03/2025

1- JORNAL - 8hrs

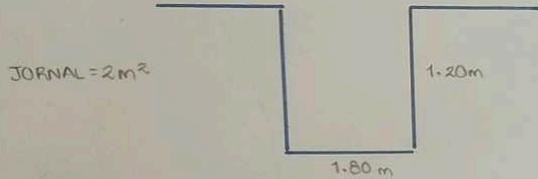


JOR =  $7m^2$   
 PEON =  $\$366.00 \times 1.71 = 625.86$   
 ALBAÑIL =  $\$500.00 \times 1.71 = 855.00$   
PRECIO MANO DE OBRA 1480.86

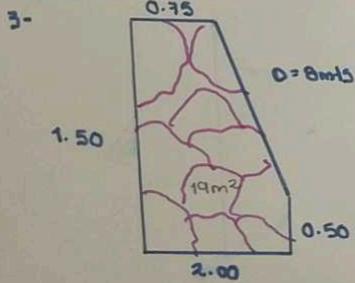
$12m^2 \times 38.89 = 467$  Ladrillos al hilo

PRECIO MATERIAL  
 $467 \text{ pzas} \times \$8 = 3736.00$   
 PRECIO MANO DE OBRA  
 1480.86  
 TOTAL  
 $3736.00 + 1480.86 = 5,216.86$

2- EXCAVACIÓN 5 ZAPATAS AISLADAS



$1.80 \times 1.80 \times 1.20 = 3.88m^3$   
 $3.88 \times 5 \text{ pzas} = 19.44m^3$   
 $19.44m^3 \div 2 = 9.72 \text{ dias}$   
 PEON =  $\$366.00 \times 9.72 \text{ dias} = 3557.52$   
 COSTO MANO DE OBRA



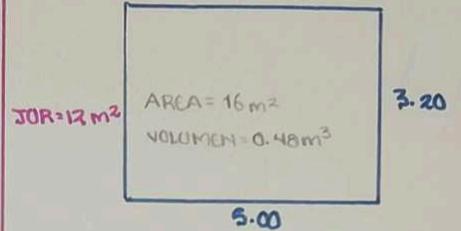
$19m^3 \div 2m^3 = 9.5 \text{ dias}$   
 PRECIO MATERIAL  
 $\$7,916.6$   
 PRECIO MANO DE OBRA  
 PEON  $\$366.00 \times 9.5 \text{ dias} = 3,477$   
 ALBAÑIL  $\$500 \times 9.5 \text{ dias} = 4,750$   
8,227

JORNAL =  $2m^3$   
 $2,500 = 6m^3 \rightarrow 1 \text{ camion}$   
 $\times 19m^3$   
 $\times 2016$

TOTAL  
 $\$16,143.6$

4- APLANADO EN MURO

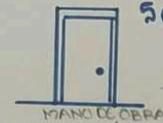
ESPESOR = 0.03cm



AREA  $16m^2 \times 0.03cm = 0.48m^3$   
 CEMENTO =  $0.48m^3 \times 0.286 = 0.13728m^3 = 3 \text{ BULTOS}$   
 ARENA =  $0.48m^3 \times 1.248 = 0.59904$

CEMENTO  
 $3 \text{ BULTOS} \times \$224 = 672$   
 ARENA  
 $\$333$   
 MANO DE OBRA  $16m^2 \div 12m^2 \text{ JORNAL} = 1.3 \text{ dias}$   
 AYUDANTE =  $\$486.78 \times 1.3 = 632.814$   
 ALBAÑIL =  $\$665.00 \times 1.3 = 864.5$   
1497.314  
 TOTAL  
 $2502.314$

5- 5 puertas metálicas  
 JOR = 2pzas

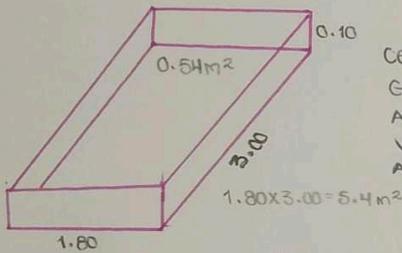


MANO DE OBRA  
 HERRERO =  $\$832.00 \times 2.5 = 2,080$   
 AYUDANTE =  $\$366.00 \times 2.5 = 915$   
2,995  
 PRECIO MATERIAL  
 $\$890 \times 5 \text{ pzas} = 4450$   
 TOTAL  
 $\$7,445$

27/03/2025

LOSA DE CONCRETO ARMADO

CONCRETO 200 KG/CM<sup>2</sup>



MATERIALES

- CEMENTO  $0.54m^3 \times 0.348 = 0.18792 \times 1000 = 187.92 \div 60 = 4$  BULTOS
- GRAVA  $0.54m^3 \times 0.620 = 0.3402$
- ARENA  $0.54m^3 \times 0.555 = 0.2997$
- VARILLA 6pas 3/8"
- ALAMBRE DE AMARRE

- CEMENTO+4 BULTOS = \$255.00
- GRAVA =  $1m^3 = \$333.33$
- ARENA =  $1m^3 = \$333.33$
- VARILLA = 6pas = \$125.00
- ALM = 2kg = \$40.00
- TOTAL = \$2396.00

MANO DE OBRA

DÍA

- 0.1 COLADO DE LOSA  $1m^3 \rightarrow$  Ayudante y albañil  $\times 0.54 =$
- 0.2 EMPARRILLADO DE LOSA  $9m^2 \rightarrow$  Tierrero y ayudante  $\times 0.6 =$
- 0.3 CIMBRA DE LOSA COMUN  $9m^2 \rightarrow$  Carpintero y ayudante  $\times 0.6 =$
- 0.4 DECIMBRADO  $9m^2 \rightarrow$  Ayudante y Albañil  $\times 0.6 =$
- 0.5 CORADO DE LOSA  $18m^2 \rightarrow$  1 día  $\rightarrow$  Ayudante  $\times 0.3 =$

- Ayudante = \$366.00  $\times 0.4$
- Albañil = \$500.00
- Tierrero = \$500.00
- Carpintero = \$500.00

SALARIO X DIA

- 0.1 = \$197.64 + 270 = 467.64
- 0.2 = \$300.00 + 219.6 = 519.6
- 0.3 = \$300.00 + 219.6 = 519.6
- 0.4 = \$219.6 + 300.00 = 519.6
- 0.5 = \$109.8 = 109.8

\$3830.00 > 6,226.00  
+ \$2396.00

33% = 2054.58  $\rightarrow$  Ganancia

\$6,226.00  $\rightarrow$  Materia + Mano de obra

FOR DIA

TOTAL = \$2,136.24