

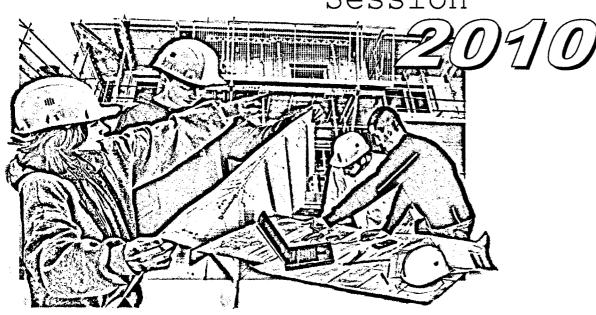
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BACCALAUREAT PROFESSIONNEL

TECHNICIEN D'ETUDES du BATIMENT ÉTUDES et ÉCONOMIE

Session



DOSSIER ETUDES

EPREUVE E2

PREPARATION D'UNE OFFRE

SOUS-EPREUVE U.21 QUANTIFICATION DES OUVRAGES

N°	Activités et documents	Barème	Durés conseillée
1	Quantification d'un revêtement de sol DE1; DR1 à DR3		1h00
2	Quantification de parois verticales DE2, DE3; DR4 et DR5	20	1h30
3	Quantification de matériels en plomberie / chauffage DE4, dossier DE5 informatique; DR6	6	0h30

BACCALAUREAT PROFESSIONNEL TECHNICIEN D'ETUDES DU BATIMENT Option A ETUDES et ECONOMIE	EXTENSION DU LP JULES ANTONINI AJACCIO						
	EPREUVE E2 : PREPARATION D'UNI SOUS-EPREUVE U 21 : QUANTIFICAT		1006-TE PO 21				
Session 2010	DUREE: 3 H 00	COEFFICIE	NT : 2				

BACCALAUREAT PROFESSIONNEL

TECHNICIEN D'ETUDES du BATIMENT ÉTUDES et ÉCONOMIE



EPREUVE E2

PREPARATION D'UNE OFFRE

SOUS-EPREUVE

U.21

QUANTIFICATION DES OUVRAGES

	SOI	MMAIRE
DOSSIER	Support papier	DE 1 à DE 4 DR 1 à DR 6
ETUDES	Support informatique	
DOSSIER	Support papier	DT 1 Radiateurs REGGANE 3000
TECHNIQUE	Support informatique	Dossier DE5 chauffage

BACCALAUREAT PROFESSIONNEL TECHNICIEN D'ETUDES DU BATIMENT Option A ETUDES et ECONOMIE	EXTENSION DU LYCEE PROFES	SIONNEL JULES ANTONINI
	EPREUVE E2 : PREPARATION D'UNI SOUS-EPREUVE U 21 : QUANTIFICAT	
Session 2010	DUREE: 3 H 00	COEFFICIENT : 2

Renseignements complémentaires :

a) Pour l'avant métré

Les passages de portes sont à prendre en compte dans la pièce si la porte est positionnée sur le nu extérieur de la cloison ou du mur.

Intérieur pièce

Zone à prendre en compte :

Epaisseur du mur

X

Largeur de la porte

b) pour l'étude des crédits heures :

Sur un chantier d'importance similaire, avec une équipe constituée de 2 hommes, sur une base d'un horaire hebdomadaire de 35 h

On a relevé les éléments suivants :

- 9 jours ouvrés pour la mise en œuvre de 185 m² de revêtement en grès cérame
- 4 jours ouvrés pour la pose de 125 ml plinthes
- La pose de 6 tapis brosse. et de leurs cadres a requis une journée de travail.

Quantification des ouvrages

ETUDE N° 1

SITUATION PROFESSIONNELLE:

Métreur dans une entreprise spécialisée dans le revêtement de sol, vous intervenez sur la partie sols scellés du projet d'extension.

ON DONNE :		Papier Papier	Informatique
- Le dossier technique de base		Y	Y
- Une présentation de l'étude à effectuer	DE1	X	A
- Le document réponse	DR1 à DR3	X	
XQ\			
ein's			

ON DEMANDE:

A partir des éléments du dossier de base

Sur document DR1 - DR2:

1.1 De rédiger l'avant métré de l'article 6.2.1.1 du CCTP. avec des croquis minute Attention seules les surfaces manquantes sur les plans sont demandées.

Sur document DR3

- 1.2 De reporter les quantités sur le D.P.G.F.(Décomposition du Prix Global et Forfaitaire)
- 1.3 De déterminer la quantité totale d'heures prévisionnelles pour réaliser les ouvrages du lot **6.21 du CCTP**.

ON EXIGE:

- Un métré rigoureux qui suit la décomposition des éléments repérés.
- Le respect de la méthode de présentation proposée.
- Une exactitude des résultats.

DE 1

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 QUANTIFICATION DES OUVRAGES
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BACCALAUREAT PROFESSIONNEL TECHNICIEN D'ETUDES DU BATIMENT Option A ETUDES et ECONOMIE

Session 2010

EXTENSION DU LYCEE PROFESSIONNEL JULES ANTONINI

EPREUVE E2 : PREPARATION D'UNE OFFRE SOUS-EPREUVE U 21 : QUANTIFICATION DES OUVRAGES

1006-TE PO 21

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BACCALAUREAT PROFESSIONNEL
TECHNICIEN D'ETUDES DU BATIMENT
Option A
ETUDES et ECONOMIE

EXTENSION DU LYCEE PROFESSIONNEL JULES ANTONINI

EPREUVE E2: PREPARATION D'UNE OFFRE
SOUS-EPREUVE U 21: QUANTIFICATION DES OUVRAGES

1006-TE PO 21

Session 2010

DUREE: 3 H 00

COEFFICIENT: 2

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## Quantification des ouvrages

**ETUDE N° 1** 

1.3 Calcul du crédit heures pour la réalisation du poste 6.21 :



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	TECHNICIEN D'ETUDES DU BATIMENT Option A ETUDES et ECONOMIE	EPREUVE E2 : PREPARATION D'UNE OFFI SOUS-EPREUVE U 21 : QUANTIFICATION I	1006-TE P	O 21	
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#### Cher(e) collègue,

J'ai une réunion de chantier ce matin, je souhaite donc que tu achèves la rédaction de la minute d'un dossier dont tu n'as pris connaissance qu'hier. Aussi pour t'en faciliter l'approche voici quelques éléments:

Il s'agit des peintures des parties verticales de la cage d'escalier dont tu trouveras la description dans le CCTP art. 7.24.

J'ai déjà travaillé sur les parties horizontales et la paillasse de l'escalier.

Pour des raisons pratiques je te demande de suivre ma méthode.

Sur la minute, tu trouveras les croquis des faces intérieures A, B, C des murs que j'ai amorcés pour établir les calculs.

Tu compléteras la cotation

## Quantification des ouvrages

### ETUDE N° 2

#### SITUATION PROFESSIONNELLE:

Apprenti(e) métreur dans une entreprise de peinture, vous achevez le métré de peinture à la demande de votre tuteur

#### ON DONNE:

- Le dossier technique de base
- Une présentation de l'étuge à effectuer
- La minute de métré

DE2 à DE3 DR4 et DR5 X X X

#### ON DEMANDE:

A partir des instructions laissées par votre tuteur

#### Sur DR4 et DR 5:

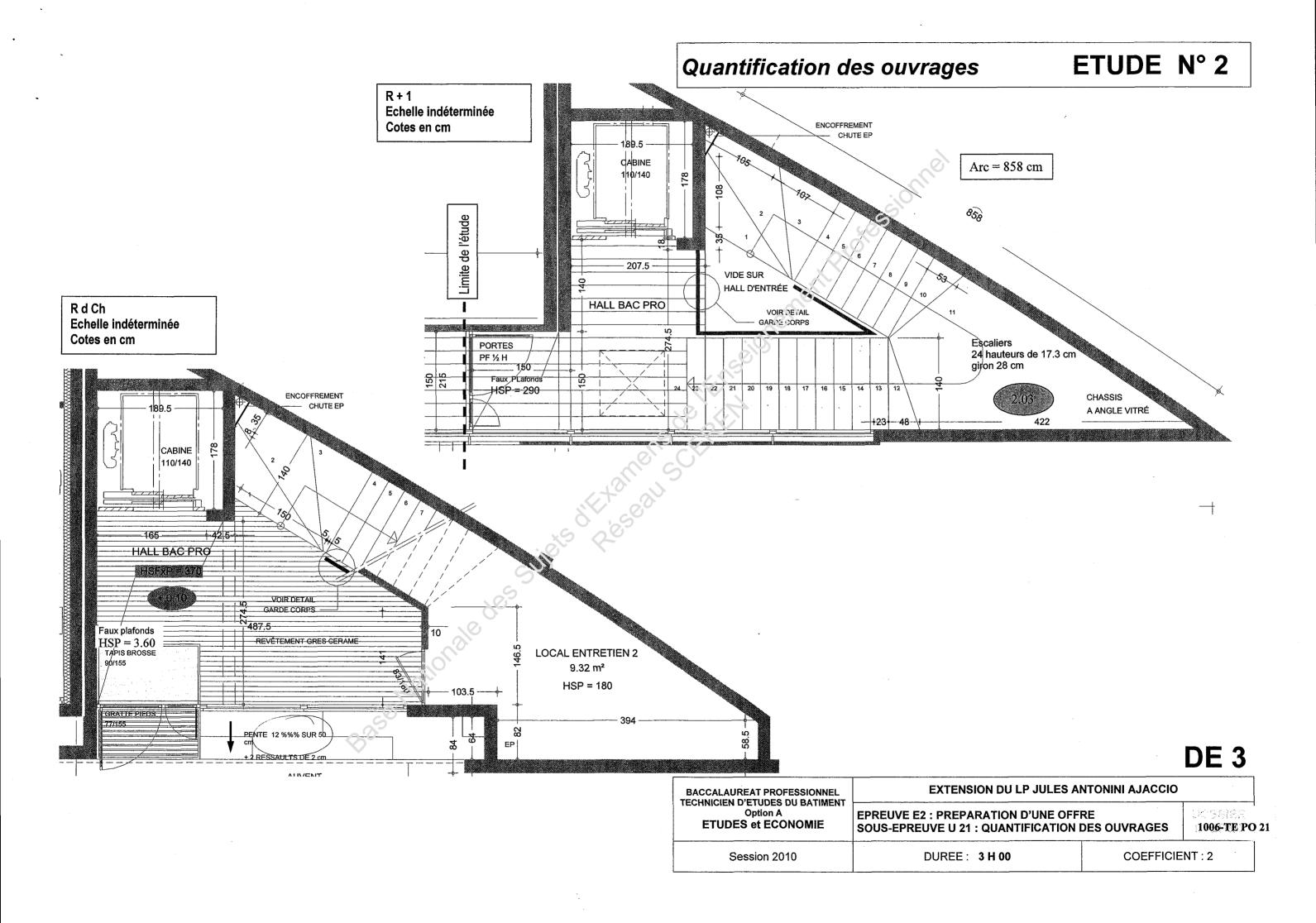
1.1 De réaliser l'avant métré d'une partie du « hall Bac Pro » (face A ; B ; C repérées sur le croquis minute), pour l'article 7.24 du C.C.T.P.

#### ON EXIGE:

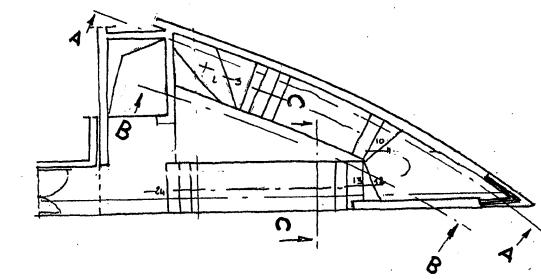
- Un métré rigoureux qui suit la décomposition des éléments repérés.
- Le respect de la méthode de présentation proposée.
- Une exactitude des résultats.

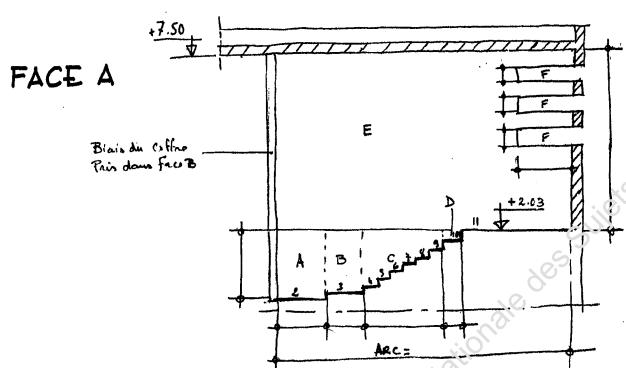
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REPERAGE DES FACES





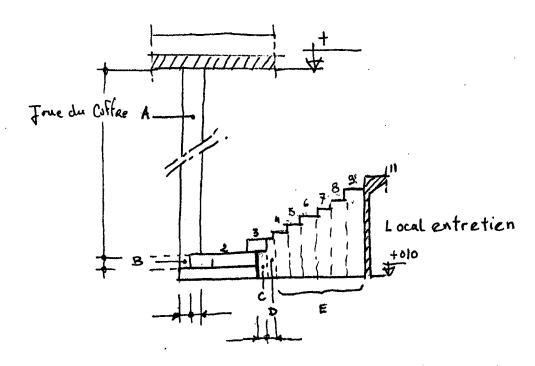
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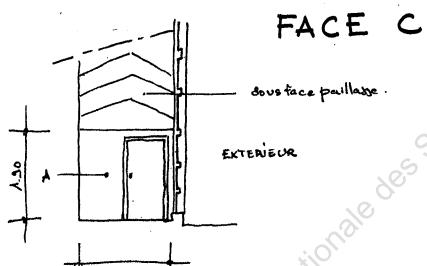
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# FACE B





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BACCALAUREAT PROFESSIONNEL TECHNICIEN D'ETUDES DU BATIMENT	EXTENSION DU LYCEE PROFESSIONNEL JULES ANTONINI						
Option A ETUDES et ECONOMIE	EPREUVE E2 : PREPARATION D'UNE OFF SOUS-EPREUVE U 21 : QUANTIFICATION	1006-TE PO 2					
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## Quantification des ouvrages

## ETUDE N° 3

#### **SITUATION PROFESSIONNELLE:**

Métreur dans une entreprise de Plomberie chauffage, vous complétez le métré du lot Chauffage / Ventilation / Plomberie n° 10.

5		Papier	Informatique
ON DONNE:			
- Le dossier technique de base		X	X
<ul> <li>Une présentation de l'étude à effectuer</li> </ul>	DE4	X	
<ul> <li>Le dossier informatique d'étude du chauffage</li> </ul>	DE5		Х
- La documentation technique	DT1	X	
- Le document réponse	DR6	X	

#### ON DEMANDE:

#### Sur DR 6:

1.1 Vous compléterez les tableaux des appareillages (radiateurs et appareils sanitaires)

Nota : le vidoir est un appareil sanitaire utilisé pour le vidage de seaux d'eau

1.2 Pour permettre une étude thermique plus affinée, on vous demande de calculer le volume d'eau contenu dans l'ensemble des radiateurs.

#### ON FXIGE

- Un métré rigoureux qui suit la décomposition des éléments repérés.
- Une exactitude des résultats.

## **DE 4**

BACCALAUREAT PROFESSIONNEL TECHNICIEN D'ETUDES DU BATIMENT	EXTENSION DU LYCEE PROFESSIONNEL JULES ANTONINI							
Option A ETUDES et ECONOMIE	EPREUVE E2 : PREPARATION D'UNE OFFRE SOUS-EPREUVE U 21 : QUANTIFICATION DES OUVRAGES  1006-TE I							
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#### 1.1 A Zone de décompte des radiateurs :

	Nive	Niveau :			Niveau :										
		<del> </del>	<del>1</del>			<del>,</del>			<b>r</b>	Γ · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		1	1	
Localisation		1	n	7		forte		<u>.</u>	0 1	0.2			5		AL
Type de radiateurs	Info 1	Cours	Bureau	Cours	Info 2	Cham forte		Atelier	Techno 1	Techno 2	Rgt	Hall	Bureau		TOTAL
REGGANE S11S-500-9															
REGGANE S11S-750-9															
REGGANE S11S-750-12															
REGGANE S11S-750-16															
REGGANE S11S-750-18															C
REGGANE S11S-750-20														~	
REGGANE S11S-750-39													1.4	O.	
REGGANE S22S-900-9														50	
REGGANE S22S-900-16											. (1)		8		
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							15								
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					9	0									

## Quantification des ouvrages

## ETUDE N° 3

#### 1.1 B Zone de décompte des appareils sanitaires

Appareils	RdCh	N+1	TOTAL
Lave main			
Lavabos plan	.00		
Wc surélévé			
We normal			
Vidoir			
eidhemenit			

### 1.2 calcul du volume d'eau dans l'ensemble des radiateurs

Kélérence de radiateurs	Volume d'eau par élément	Nombre d'éléments dans la référence	Volume d'eau totale par référence
S 11S-500	0.131	9 éléments	
		TOTAL	
1			
			DR 6

BACCALAUREAT PROFESSIONNEL TECHNICIEN D'ETUDES DU BATIMENT Option A ETUDES et ECONOMIE	EXTENSION DU LYCEE PROFESSIONNEL JULES ANTONINI			
	EPREUVE E2: PREPARATION D'UNE OFFRE SOUS-EPREUVE U 21: QUANTIFICATION DES OUVRAGES		1006-TE PO 21	
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