



JUNE XXXX

INTERMEDIATE LEVEL

Subject Title	SHEET METAL WORK
Subject Code No.	5405
Paper No.	THREE

**DURATION**  
**THREE HOURS**

**INSTRUCTIONS TO THE CANDIDATES**

- 1- Candidates must provide all their working tools
- 2- The examination is scheduled for three hours commencing from 8.00 am to 11.am prompt
- 3- Candidates shall commence work at 8.00 am
- 4- Any candidates absent on the first thirty minutes shall NOT be allowed
- 5- The interchanging of aid between the candidates shall NOT allowed
- 6- ALL Examination materials shall NOT be carried home before the end of the examination
- 7- This paper will carry a weighting of 40% of the total mark allocated for the subject

**You are reminded of the necessity for good English and orderly presentation in your answers.**

*Turn Over*

## SHEET METAL WORK

### I- TARGETED SKILLS

The purpose of this fabrication is to assess the following skills in the candidate:

- Develop the detailed realization process;
- Prepare the profiles;
- Form the profiles
- Assemble the profiles;
- Check the parts made.

### II- APPLICATION

The drawing shown below is a Duspan . It consists of sheets metal 15/10.  
The whole frame is welded by an electric arc method with coated electrode.

The pattern will be assembled using arc welding and bolt

### III-1 WORKING MATERIAL

- A sheet S235, of thickness 15/10 and of dimension 850mmx220mm;
- A sheet S235, of thickness 15/10 and of dimension 250mmx220mm,
- A sheet S235, of thickness 15/10 and of dimension 650mmx160mm
- Five Coated electrodes Ø2.5mm

### III-2- Individual tools.

- |                         |                      |
|-------------------------|----------------------|
| - Hacksaw               | - welding mask       |
| - Flexible ruler 300 mm | - hammer to garnish  |
| - Flexible ruler 500 mm | - metal compass      |
| - Square                | - soft leather glove |
| - Scriber               | - wire brush         |
| - Centre punch          |                      |
| - Large square          |                      |

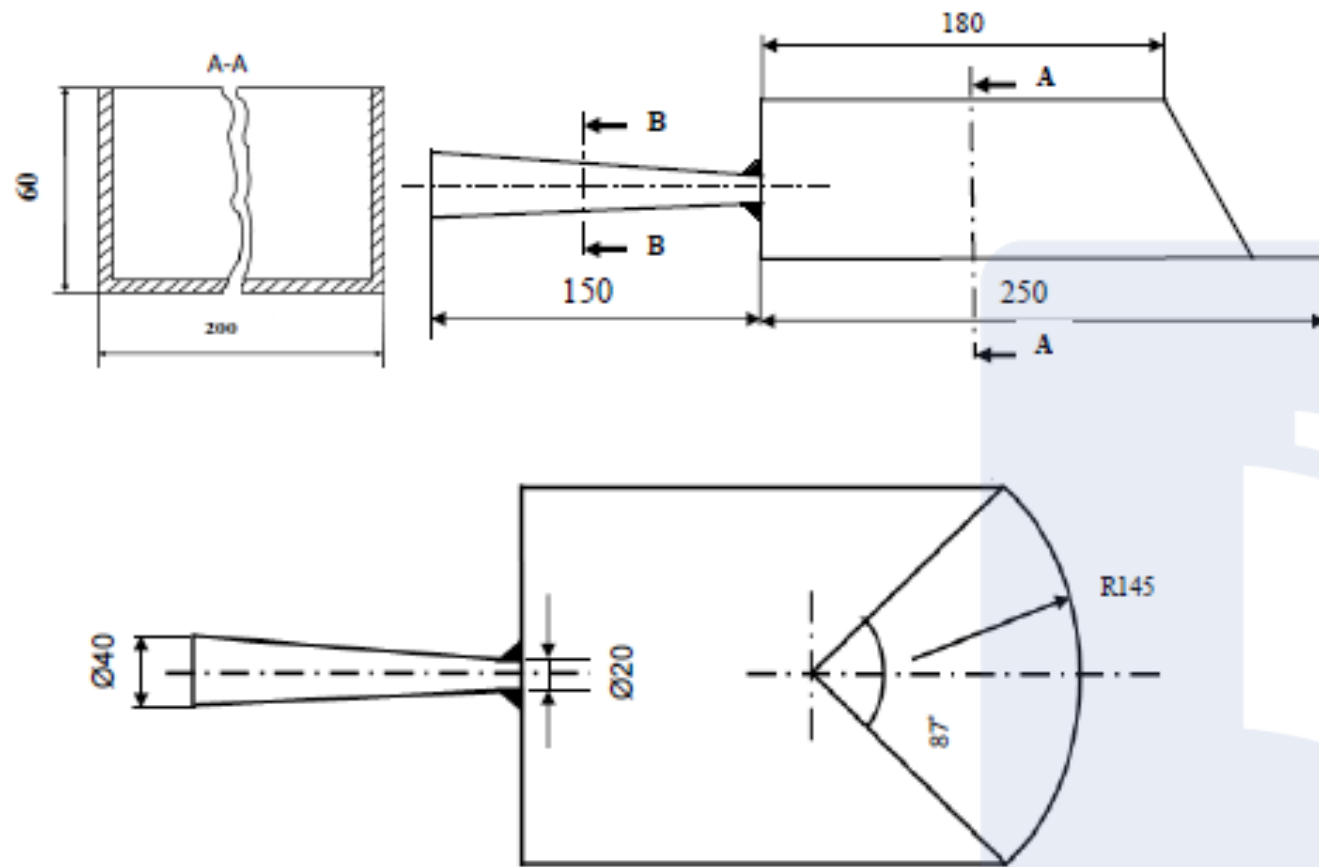
### III-3- Collective equipment.

- Electric arc welding station;
- Portable grinder;
- Bench vices;
- Anvil;
- Drill press
- Personal protective equipment (PPE)

### III- MARK ALLOCATION GUIDE.

Competence	Know-how	Evaluation criteria	Evaluation
Prepare the elements	Cutting	Cutting of piece1 Cutting of piece 2 Cutting of piece 3	40mrks
Forming	Bendin and folding	Pieces 1 and piece 2	30 mrks
Assembly	Welding	Pieces 1, 2 and 3	20mrks
Quality control.	do quality control	Customer's demand	10mrks
		Correct deburring (finishing)	

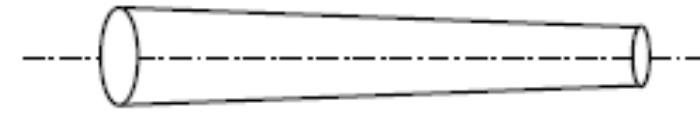
## ASSEMBLY DRAWING



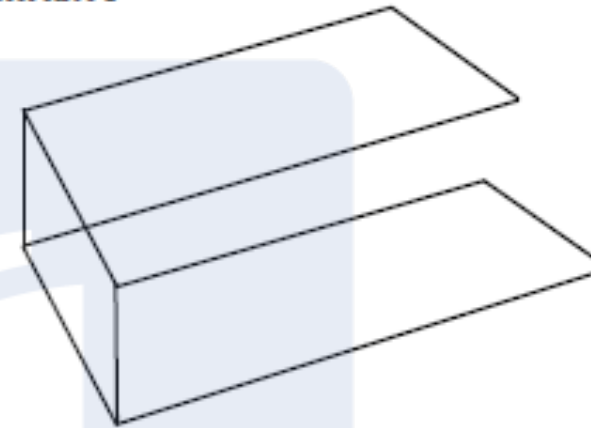
NB: sheet thickness is 15/10

## DETAIL DRAWING

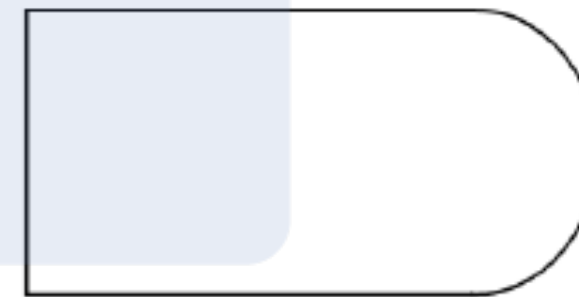
Handle: reference 1



Cover: reference 2



Support: Reference 3



3	1	SUPPORT	S 185	
2	1	COVER	S 185	
1	1	HANDLE	S 185	
Ref.	Qty	Designation	Material	Observation
Scale: 1:2				
DETAIL DRAWIND OF THE DUSTPAN				

Turn Over XXXX/5405/3/C