



LESSON NOTES

School: Ba Sangam College
Subject: Applied technology

Year/Level: 12
Week 11

Name:
Year:

Strand	Welding and Fabrication
Sub Strand	Cutting and Forming Process
Content Learning Outcome	State the different processes involved in sheet metal

SHEET METAL SAFETY

Always wear leather or other sturdy gloves when working with sheet metal.
Wear safety shoes.
Wear eye goggle/ clear glass.

SHEET METAL WORK PROCESS

Basic sheet metal working actions are
Cutting operation
Bending
Drawing

CUTTING OPERATION

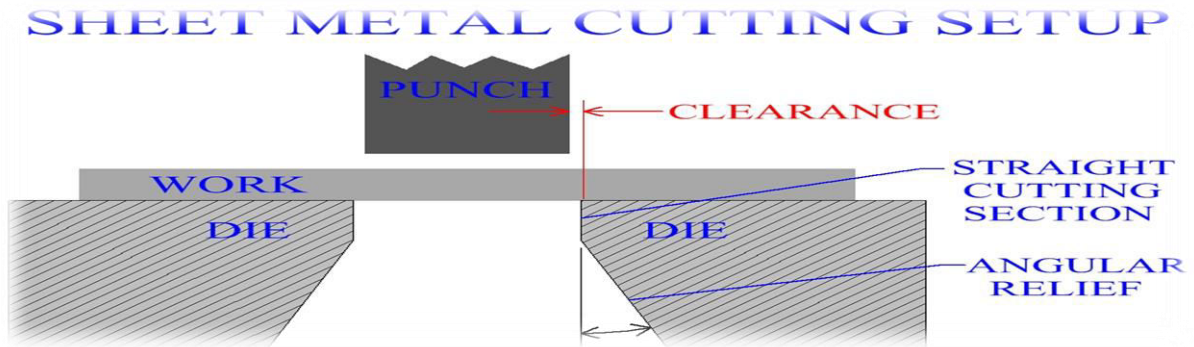
Cutting operation are those in which a piece of sheet metal is separated by applying a great enough forces to cause the material to fail.



SHEARING

Shearing force is applied by two tools, one above and one below the sheet. Whether these tools are a punch and die or upper and lower blades, the tool above the sheet delivers a quick downward blow to the sheet metal that rests over the lower tool.

A small clearance is present between the edge of the upper and lower tools, which make possible for the cutting of the material. The size of this clearance is usually 2-10 percent of the material thickness and depends upon several factors, such as the specific shearing process, material, and sheet thickness.



Review question (10 marks)

1. List three sheet metal safety?

(3 marks)

2. List three basic sheet metal working action?

(3 marks)

3. Explain the term shearing?

(2 marks)

4. What is the size of the clearance in the shearing process?

(2 marks)