

PRACTICAL # 01

Objective:-

To study the flowchart symbol and their uses

Equipments:-



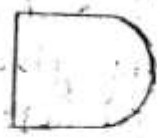
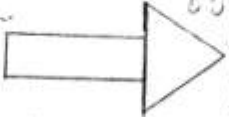
Compass
Protractor
Scale
Pencil, etc

Description:-

In 1947 the American Society of Mechanical Engineers established as standards, the five symbols charts are generally represented by symbols because symbols give the better understanding picture at quick understanding of the facts. Processes charts use the following symbols to records different types of circuits.

Procedure:-

Draw the symbols as per order with geometrical devices.

SNO	EVENT	SYMBOL	DESCRIPTION
1	Operation		Operation represents an action. It is a step in the procedure. An operation involves a change in the location or condition of the product. E.g, cutting a hole on a power hack saw.
2	Storage		Storage represents a stage when finished goods & raw material waits for an action. Storage shows an authorised control over an item.
3	Delay		Delay occurs when something stops the processes and product wait for next step. It is temporary halt in process.
4	Transport		Transport indicates the movement of an item from one location to another. The item may be material, equipment, an operator or his hands only. E.g, oil flowing through pen stock, airplane flying from one city to other.

OLD METHOD

S.NO	EVENT	SYMBOL	DESCRIPTION
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5) Inspections



Inspection is an act for checking for correctness of the quantity or quality of the item
e.g: checking the hardness of mild steel.

6) Operations cum Operations



Both events occur simultaneously in this event. eg articles are being painted as chain conveyor transport them.

7) Inspection cum Operation



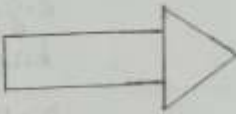
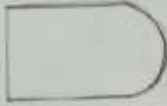
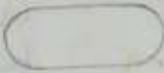





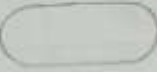



In this case both events occurs simultaneously. these are controlled automatically physically e.g. a power milk tin is being weighted as its filled.

Result

Become familiar about the various symbols used in work study and methods Engineering.

OLD METHOD :-

LEFT HAND	SYMBOL (L.H)	SYMBOL (R.H)	RIGHT HAND
Pickup bolt			Pick up bolt
Transport to nut			Idle
Assemble			Operation
Hold			Idle
Hold			Operation
Assemble			Hold