



Route Sheet

- ❑ Set of instructions to the plant showing how to manufacture the product
- ❑ Machine
- ❑ Time
- ❑ Operation description
- ❑ Fig. 3.9 and 3.30 (example)



Manufacturing Processes

- ❑ Refining and Alloying
- ❑ Casting
- ❑ Metal Forming
- ❑ Metal Cutting
- ❑ Welding
- ❑ Assembly
- ❑ Finishing

Evaluating the Cost

- Fixed Costs – not dependent on number of parts made
 - Purchase cost of machines, installing, space
- Variable Costs – are dependent on # of parts
 - Operator's, running the machine, material
- Cost Estimating (page 70)
 - Direct material and labor, overhead
 - Overhead factor - % of direct labor