Principles of management

05_Information and decision making

Introduction

Managers are decision makers because the decision—making process is part of management. An effective manager is distinguished by his ability to make a decision at the appropriate time.

Although it is possible to the delay decision at the appropriate time, prepare the necessary studies for it, or wait until the developments take shape, the time must come to make the decision.

Definition of decision making

decision making

(It is a multi-step process that finally culminates in choosing a specific solution as the final step)

(Choose the best alternative from among several alternatives)

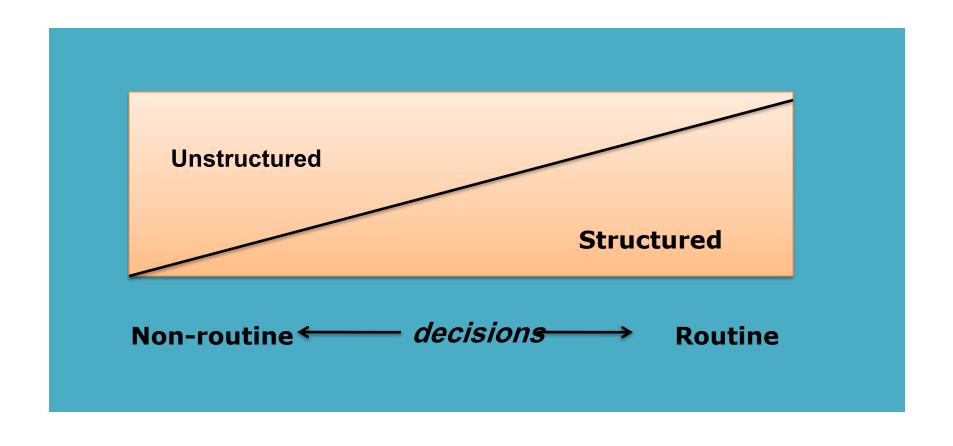
Types of decisions

Types of decisions:

1 - Routine and non-routine decisions

2- Decisions taken under conditions of certainty, risk, and uncertainty

Routine and non-routine decisions

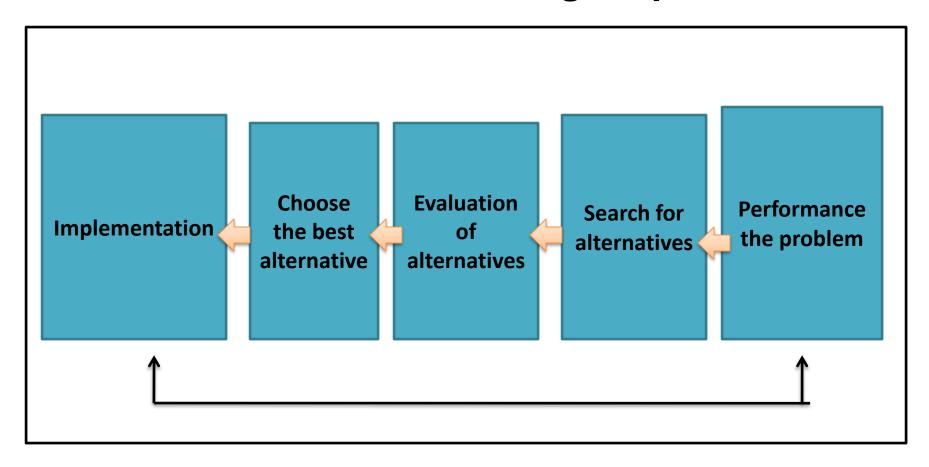


Types of decision makers

Types of decision makers:

- 1- Decisive: It relies on a minimum amount of information and cares about speed
- 2- Flexible: Prefers summary reports and solutions that are accepted by others
- 3- Hierarchical: The manager examines and studies a large group of information, seeking perfection, accuracy, and comprehensiveness
- 4- Integrative: The manager uses a wealth of extensive information to generate solutions

Decision making steps



Selected decision-making methods:

Probability theory, decision tree

Probability theory

The company wants to produce products A B C D, and it expects four profit states:

excellent with probability 0.2, very good with probability 0.3, good with probability 0.1, weak with probability 0.4.

You are required to choose the best one in light of the following data:

Expected value						
		0.4 weak	0.1 good	0.3 very good	0.2 excellent	alternatives
		6	14	9	12	А
		5	10	15	14	В
		9	9	11	3	С
		8	6	2	18	D

the solution

Expected value		net profit				
		0.4 weak	0.1 good	0.3 very good	0.2 excellent	alternat ives
	2.4 +2.7 .4 +2.4 =8.9 + 1	6*0.4= <mark>2.4</mark>	14*0.1= 1.4	9*0.3= 2.7	12*0.2= <mark>2.4</mark>	А
10.3	+ 4.5 +1+2 = 10.3 2.8	5*0.4= <mark>2</mark>	10*0.1= 1	15*0.3= 4.5	14*0.2= <mark>2.8</mark>	В
	0.6+ 0.9 +3.6=8.4 3.3+	9*0.4= <mark>3.6</mark>	9*0.1= <mark>0.9</mark>	11*0.3=3.3	3*0.2= <mark>0.6</mark>	С
	+0.6+ 0.6+3.2 =8 3.6	8*0.4= <mark>3.2</mark>	6*0.1= <mark>0.6</mark>	2*0.3= <mark>0.6</mark>	18*0.2= <mark>3.6</mark>	D

