Course Code : MBLS6003

Course Name: Materials Management and Inventory Control

Materials Classification and Codification

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TOPICS COVERED

- Definition of Materials Classification and Codification
- Objective of Materials Codification
- Principles of Materials Classification/Codification
- Materials Classification groups
- Steps involved in Materials Classification
- Types of Materials Codification
 - > Alphabetic
 - ➢ Numeric
 - ≻ Alpha-numeric
 - > Decimal, Brisch and Kodak
- Advantages of Materials classification and Codification

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Materials Classification

- The materials procured by a firm must be classified and coded before the materials are inspected, accounted in stores ledgers and stored.
- Materials are broadly classified according to their nature, use and service before codification is taken up.

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Materials Codification

- This is the system adopted for accurate identification of materials by allotting a alphabets, numerical or alphanumeric number for each item procured and stored.
- Systematic concise representation of raw materials, components, spares and tools etc.

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Objectives of Materials Codification

- To bring all similar items together under one classification or group
- To classify an item according to its nature or characteristics
- To avoid duplication and confusion
- To fix essential parameters to specify an item

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Principles of Materials Classification/Codification

- Code should be compact, concise and Consistent
- Code should be unique.
- Code should be Comprehensive
- Code should be sufficiently flexible to meet future requirement
- Code should be simple to understand
- Easily adoptable and implementable

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Materials Classification Groups

- Raw Materials (RM)
- Components
- Consumables
- Spare Parts
- Supplies
- Tools
- Packing Materials
- Work-in-process (WIP) items
- Finished Goods (FG)
- Hardware items
- Fasteners
- Subcontracted items
- Wires and cables
- Paints and chemicals
- Petroleum, oil & lubricant (POL)

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Steps involved in Materials Codification System

- The large number of items of different varieties comprising the inventory needs to be classified under major groups known as "Generic groups".
- Further divide into distinct subgroups according to the type of material.
- Further listed in alphabetical order and then according to the size, characteristics, function.

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LECTURE - 2

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Types of Materials Codification System

- Alphabetic system
- Numeric system
- Alpha-Numeric system
- Decimal system
- Brisch or British system
- Kodak System
- Mnemonic System
- Block system

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1. Alphabetic coding system

- Alphabets are used as codes allocated to materials which have no relation with number
- Each materials analysed from point of view of codification and is grouped according to nature, use etc.

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Alphabetic coding system example

Raw Materials	CODES
IRON	IN
Iron sheet Iron Bars Iron steel	IN-ST IN-BA IN-S
STAINLESS STEEL	IF
SS-2 mm	IF-SA
SS-5 mm	IF-SB

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2. Numeric coding system

Numeric codes are allocated to materials. (0-9).

- 1. Simple number:
- Each item allotted a number. Some numbers are kept for future expansion.
- 2. Block Number: (group of number)
- Items of similar nature grouped together
- A block number is allotted to one group which may be further sub-divided as per need.
- 3. Dash or Stroke Number:
- In between digit a stroke or dash is put to describe varying characteristics of materials.

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Numeric coding system example

Materials	Simple Number	Block Number	Dash or Stroke
Raw Materials	01	Block of 1-100	17
Iron sheet	05	1-10	17-1 or 17/1
Iron bars	06	11-20	17-2 or 17/2
Iron steel	07	21-30	17-3 or 17/3
Stainless Steel	11	200-250	20
ss-2 mm (diff width)	12	201-205	20-2
ss-5 mm	13	206-210	20-3

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3. Alpha-Numeric coding system

- A mix of alphabetical and numeric allocated to materials.
- Materials are grouped together and group is allocated a code.
- Numbers are assigned based on block system or dash/stroke system

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Alpha-numeric coding system example

Materials	Main	Sub-I	Full Code
Sulphur	SP		
Sulphuric acid		11	SP-11
Sulphur Oxide		12	SP-12
Packing Material	PM		100-999
Packing box size 18"		101	PM-101
Packing box size 24"		102	PM-102
Packing box size 56"		103	PM-103

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4. Decimal coding system

- The decimal system uses decimal in coding.
- The system divides into three category
 - First Category:

Main classification such as RM, FG etc.

Second Category:

Divides first category into different sub-classification according to nature, use, quality, characteristics etc.

• Third category:

Further divides second category into different materials such its component, quality etc.

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Decimal coding system example

	Main	Sub I	Sub II	Full Code
Stationary	47			
Pencil		01		47.01
Pen		02		47.02
Paper		03		47.03
PENCIL		01		
Lead			51	47.01.51
Blue			52	47.01.52
Red			53	47.01.53

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5. Brisch coding system

- It is named after UK prominent consulting engineer.
- Based on numbers 0-9
- Consist of blocks separated by decimal.
- Similar to decimal system.
- Example: 12. 01.15

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5. Kodak coding system

- Developed by Eastman Kodak
- Based on numeric and hyphen
- It is 10-digit numeric code.
 - First Two digit: 82-85 : Fuel stock
 - Sub-Class: 001 Diesel
- 002 Petrol
 - Diesel sub class: 601 Normal Diesel
 - 602 High speed diesel

Example: 602-001-82 High speed diesel of major fuel category

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Advantages of Classification & Codification

- Systematic grouping for correct identification of similar items.
- Avoids duplication stocks of same items.
- Reduction in sizes and varieties.
- Helps in standardization of materials.
- Avoid long description.
- Accurate and logical identification.
- Ensures accuracy in correspondence, records and postings of receipts and issues in appropriate records.
- Helps in efficient purchasing.
- Helps in efficient warehousing.
- Ease of computerisation
- Ease of pricing
- Ease in physical locating the items
- Helps in efficient inspection

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