***Supply Chain Management – Commodity Supply Chain***

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| **Commodity Supply Chain** |
| A supply chain that extracts and supplies commodities to satisfy downstream requirements or transforms commodities into other commodities. |

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| What is a Commodity? |
| What are types of investment commodities? |
| What is a Commodity Supply Chain? |
| What are the characteristics within a commodity supply chain? |
| What are the characteristics within a commodity supply chain? |

🡨 Flow of Information 🡨

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| Supplier | 🡪 | Manufacturer | 🡪 | Distributor | 🡪 | Retailer | 🡪 | Customer |

🡪 Flow of Material 🡪

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| ***Supply Chain Industry*** |  |
|  |  | *Supply Chain Characteristics* |  |
|  |  | Lean(Cost,Waste) | Green(TBL,CSR) | Resilient(Risk) | Responsive(Agile) | Smart(Technology) |  |
| *Supply Chain Types* | Commodity Supply Chain |  |  |  |  |  |  |
| Global Supply Chain |  |  |  |  |  |  |
| Service Supply Chain |  |  |  |  |  |  |
| Reverse Supply Chain  |  |  |  |  |  |  |
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|  | *Functions* | Inventory – Logistics – Relationships – Information – Strategy |  |
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|  | *Drivers* | Analytics – Globalization – Sustainability |  |
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| **What is a Commodity?** |
| A raw material or primary good bought and sold. |
| Interchangeability (Fungibility) | Basic good often used as input to products. |
| Undifferentiation (Price) | Commodity vs. Product (differentiated by value-added) |
| Pure Competition | Commodity vs. Resource (e.g., human rights to water) |

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| **What are types of investment commodities?** |
| Tradable or investment commodities: | Examples |
| Metals | Copper, Gold, Silver, etc. |
| Energy | Natural gas, Petroleum, Coal, Renewables, etc.[Industry, Transportation, Residential, Commercial, Electric Power] |
| Agriculture | Corn, Cotton, Soybean, Wheat, etc. |
| Livestock & Meat | Cattle, Poultry, Hogs, etc. |
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| *Foreign currencies, Bandwidth, Mortgages, Staple Products, Services, etc.**Water, Health Care, Public Service, etc. (Commodity vs. Natural Resource vs. Human Right)* |

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| **What is a Commodity Supply Chain?** |
| Series of systems that acquire, produce, and provide commodities to customers. |
| Characteristics | Interconnected (Systems) |
| Low Cost (Profit) |
| High Service Level (Competition) |

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| **What is Commoditization?** |
| When a basic or primary good becomesinterchangeable,undifferentiated, anddriven by pure competition. |
| (i.e., Equalizing the contribution betweenPrice, Availability, Quality, Utility, etc.) |

**What are the characteristics within commodity supply chains?**

🡨 Flow of Information 🡨

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| *Supply Chain Stages* | **Sourcing***[Supplier Relationship Management]* |  |  |  |  |  |  |
| **Production***[Operations Management]* |  |  |  |  |  |  |
| **Storing***[Warehouse System Management]* |  |  |  |  |  |  |
| **Shipping***[Logistics Management]* |  |  |  |  |  |  |
| **Demand***[Customer Relationship Management]* |  |  |  |  |  |  |
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| Commodity Supply Chains: |
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| 2. |
| 3. |
| 4. |
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