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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Knowledge / Application Area** | **Methodologies** | | | | | | **Planning Levels** | | |
|  | **Optimization Modeling and Solution Techniques** | **Simulation Modeling and Analysis** | **Other Descriptive Models (i.e., Forecasting)** | **Risk Management** | **Quality Control** | **Information Technology** | **Operational** | **Tactical** | **Strategic** |
| **Facility Location** |  |  |  |  |  |  |  |  |  |
| **Inventory Management** |  |  |  |  |  |  |  |  |  |
| **Production, Planning, Scheduling, and Control** |  |  |  |  |  |  |  |  |  |
| **Transportation Management** |  |  |  |  |  |  |  |  |  |
| **Warehousing and Distribution** |  |  |  |  |  |  |  |  |  |
| **Procurement, Sourcing, and Outsourcing** |  |  |  |  |  |  |  |  |  |
| **Enterprise Integration** |  |  |  |  |  |  |  |  |  |
| **Integrated Logistics Support** |  |  |  |  |  |  |  |  |  |
| **Customer Relationship Management** |  |  |  |  |  |  |  |  |  |
| **Performance Measurement (KPIs)** |  |  |  |  |  |  |  |  |  |
| **Process Management (Six Sigma, SCOR model, etc)** |  |  |  |  |  |  |  |  |  |
| **Project Management** |  |  |  |  |  |  |  |  |  |
| **International Logistics** |  |  |  |  |  |  |  |  |  |
| **Financial Management** |  |  |  |  |  |  |  |  |  |
| **Life Cycle Cost Analysis** |  |  |  |  |  |  |  |  |  |
| **Reliability and Maintainability** |  |  |  |  |  |  |  |  |  |
| **Sustainability and Reverse Logistics** |  |  |  |  |  |  |  |  |  |
| **Collaborative Supply Chain Management** |  |  |  |  |  |  |  |  |  |