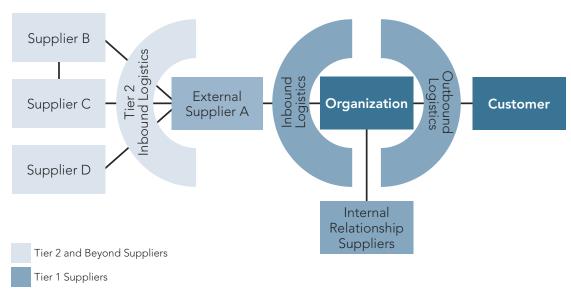
Supply chain is the "network of organizations that are involved, through upstream and downstream linkages, in the processes and activities that produce value in the form of products and services in the hands of the ultimate consumer" (ISO/TS 22318). A supply chain exists where product or service delivery depends on inputs that are not under the direct management or control of the organization. It includes both internal and external supply relationships as well as customers.



Basic Supply Chain Model

Understanding and analyzing your supply chain's strengths and vulnerabilities are vital components of business continuity management. Consistent analysis of suppliers and customers allows an organization to understand the risks and potential impacts to the organization's value stream. The goal is to identify potential risks and create strategies to ideally eliminate or minimize the exposure and impact to the company following a significant disruption to the value stream.



Reference: ISO/TS 22318: Societal Security – Business Continuity Management Systems – Guidelines for Supply Chain Continuity

Below are some common evaluation factors and considerations for managing an organization's supply chain risks.

Evaluation Factors	Actions to Consider
Supplier Criticality and Process Flow	 □ Identify flow of commerce with dependent/interdependent locations for major (high value) product and service types. □ Consider both outsourced and in-house production facilities and determine revenue dependency for each facility. □ Identify the time for the vendor to restart following a disruption and time to resource supplies from alternate supplier/provider. Include time to complete regulatory requirements for supplier restart or replacement (i.e. FDA/MDA validation, fiduciary review). □ Identify supplier tier levels and criticality based on impact to key factors (i.e. revenue, customer commitments, regulatory requirements).
Single-Source Suppliers	 Identify single-source suppliers, criticality, location (domestic vs. overseas) and associated products/services. Identify alternative local suppliers for overseas and single-source vendors and develop supplier agreements. Use dual/redundant suppliers to reduce supply chain risk where possible. Maintain adequate levels of raw materials, components and finished products. Determine buffer time for safety stock and distribute safety stock to geographically dispersed locations when feasible. Consider alternate transport arrangements (air vs. shipping) and other arrangements to provide for "expedited" delivery at time of disruption to shorten period of recovery.
Supplier Resilience	 Evaluate suppliers' business continuity plan and ensure supply chain risk factors are considered. Meet with critical suppliers to review continuity strategies on regular basis and update continuity plan as needed. Identify production capacity at suppliers' locations to determine level of back-up production capabilities at each site. Diversify critical supply sources geographically to reduce natural hazard risk and implement/review natural disaster response plans for each location. Ensure that alternate raw materials and services will comply with your organization's quality standards.
Production and Equipment Resilience	 □ Maintain safety stock for replacement parts with long lead times for critical production equipment. □ Implement service agreements with equipment manufacturer and identify alternative equipment/parts suppliers where possible. □ Consider equipment/technology upgrades in your business continuity strategy to minimize the time to repair/replace machinery.
Delivery Disruptions	 □ Consider how raw materials arrive at your production facility, as well as how finished goods leave your facility and arrive promptly to consumer. □ Proactively manage significant supply changes with routine monitoring of incoming/outgoing stock levels, threats of disruptions and the use of working capital to minimize impact from a disruption. □ Identify alternate routes and transportation methods for both incoming supplies and finished products to customers. □ Identify any contractual or regulatory penalties for failure to deliver products/services as scheduled.
Critical Customers	 □ Identify customers making up the largest percentage of revenue and ensure supply chain redundancies are in place for these customers. □ Work with down-stream customers to consider an increase in safety stock where possible to enable them to endure up-stream disruptions. □ Diversify customer base where possible.

To learn more about how to manage risks and enable business resilience, please contact CNA Risk Control at riskcontrol@cna.com or visit cna.com/prepwise.

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