

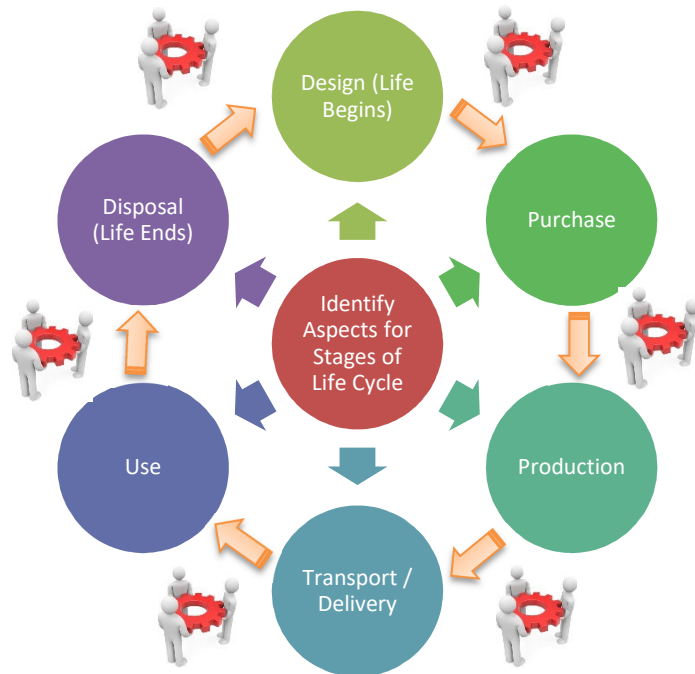


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ISO 14001: 2015 - WHAT IS “LIFE CYCLE PERSPECTIVE”? HOW TO APPLY?

Life Cycle Perspective Relating to Environmental Aspect / Impact Studies



- Life Cycle is “Consecutive and interlinked stages of a product (or service) system, from raw material acquisition or generation from natural resources to final disposal.” #
- With the understanding of environmental impacts, controls should be implemented at each stage of Life Cycle appropriately.
 - Design: Set environmental considerations
 - Purchasing: Set purchasing requirements
 - Production: Implement environmental protection controls
 - Transport / Delivery: Set vendor selection requirement
 - Use: Provide advisory on proper use of product to reduce environmental concerns
 - Disposal: Set disposing requirement

Note:

ISO 14001: 2015 Standard, 3.3.3



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Examples of Life Cycle Principles Relating to Environmental Aspect / Impact Studies

Life Cycle Principles	Aspect	Impact	Controls
<ul style="list-style-type: none"> • Before you dispose any materials / products, is there a way to recycle your product? • Can it be recycle or re-use some of the materials? 	Disposal of un-usable metal waste.	Waste of resources causing raw material depletion.	Dispose to waste recycling company for re-using and recycling purposes.
	Disposal of un-usable metal waste.	Waste of resources causing raw material depletion.	Re-fabricate by in-house maintenance department for other uses, e.g. machine covers, barricading purposes, etc.
	Disposal of electronic equipment.	Land contamination	Dispose to supplier / vendor who has recycling programme for its product which is end-of-life. E.g. computers / light bulb, etc.
<ul style="list-style-type: none"> • For a product made of plastic, have you considered environmental friendly type of plastic which could be recycled at the end of its life? • Is there plastic material that can be re-used rather than recycled? 	Designing and developing plastic product.	Possible environmental pollution such as air, land and water due to improper disposal.	Design and Development team to select recyclable plastic materials for its product.
<ul style="list-style-type: none"> • What materials are you using when packaging your product? If you are packaging in a large plastic container, could the container size be reduced, or the material changed to something that does not use a non-renewable 	Usage of packaging materials for products or other production usage.	Possible environmental pollution such as air, land and water due to improper disposal.	Select and only use recyclable friendly packaging product. E.g. use of paper packaging materials instead of plastic packaging materials.



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Life Cycle Principles	Aspect	Impact	Controls
natural resource?	Usage of container for transferring product parts to another department.	Possible environmental pollution such as air, land and water due to improper disposal.	Select and only use reusable container. E.g. use of metal container instead of paper container.
	Usage of big (or more than enough) packaging materials for products or other production usage.	Waste of resources causing raw material depletion.	Use appropriate size of packaging materials.
<ul style="list-style-type: none"> For delivery services, have you considered how packing materials impact the environment? Instead of plastic packaging material, have you considered biodegradable material made from corn starch or another material which is easily biodegraded? 	Usage of packaging materials for products or other production usage.	Possible environmental pollution such as air, land and water due to improper disposal.	Select and only use recyclable friendly packaging product. E.g. use of paper packaging materials instead of plastic packaging materials.
<ul style="list-style-type: none"> Did you try to influence your delivery vendors? How often do your delivery vendors maintain their vehicles? Can they use biodegradable packing material for your products? Is there an alternate company that has cleaner-burning delivery vehicles? 	Outsourcing transport activities to third party logistic company.	Vehicular emission due to poor maintenance of vehicles.	Conduct vendor audit for the purpose of influencing good / better environmental practices.

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