

Introduction of an ISO 14000 Environmental Management Plan for ACME

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What is an ISO 14000 plan?

- The ISO 14000 is an environmental management plan that helps companies set goals to reduce their environmental damage through several different methods
- No set requirements that must be met in the process; it's a framework system for any company to try to reduce waste/consume less

It can help us:

- Reduce costs of waste management
- Lower our consumption rate of materials
- Lower the cost of distribution
- Improve our image as an environmentally responsible company
- Improve our inspections with the EPA

"ISO 14000- Environmental Management." *International Organization for Standardization (ISO)*. ISO. 2012. Web source. 24 July 2012.

In regards to our recent inspection...

- We must focus on proactive measures rather than reactive measures
- The fact that we already had an environmental committee lessened the blow of our violations, but this committee must be serious and long-lived
- Must set up an Environmental Management System (EMS) following the ISO 14000 guidelines

Continual improvement

Management review

Environmental policy

Planning

Checking

Implementation
and
operation

Ideas for our ISO 14000 EMS

- Following the steps set about in the image previous to this slide, we should start with an environmental policy.
- Ideas: All wastes must be labeled accurately and dealt with as quickly as possible, reduce waste, increase efficiency of reactors

Next Step: Planning

- How are we going to reach our goals set about in our tentative environmental policy?
 - Set up a better labeling system
 - Set up stricter rules for disposal/storage of waste
 - Determine how much product we currently use and set a plan to reduce our resource use

Next Step: Implementation and Operation

- Set up a team (environmental committee?) to make sure all guidelines issued following the ISO 14000 Plan are followed
- If not being followed, consequences will be inevitable. What kinds of consequences would be appropriate, in your opinion?

Next Step: Checking

- We must check our progress fairly regularly to see if we are reducing our waste and energy input in our processes
- Are our goals realistic? Are we exceeding our goals, or struggling with them? How can we improve upon our plan?

Next Step: Management Review

- After a year, we must see where we are from where we have started. If we haven't improved, we must make changes in how our management is running the EMS
- If we've reached our goals, maybe we can set harder target goals for the following year

Why get a recommendation for certification?

- It will increase revenue and business
- It looks good, especially in European nations where being ISO 14000 certified is considered very important
- Makes us appear (and function) as a conscientious company
- This is worth investing into especially because we work directly with chemicals- boosts our image
- Being ISO 14000 certified may become a requirement in the future- we should invest now while we're not under as much pressure to conform

Other benefits:

- Will inspire more companies to become environmentally conscious
- A single, international standard will eliminate conflicts
- Increased competition (with these standards in place) will favor companies who adhere to them

Solutions that will also help:

- Set up a consultation with the New York State Pollution Prevention Institute (NYSP2I) to:
 - Reduce our toxic chemical use within the laboratory
 - Efficiently harness the energy of raw materials
 - Reduce emissions and reduce waste



"Mission of NYSP21." *New York State Pollution Prevention Institute*. RIT. 2012. Web source. 24 July 2012.

<http://www.rit.edu/affiliate/nysp2i/>