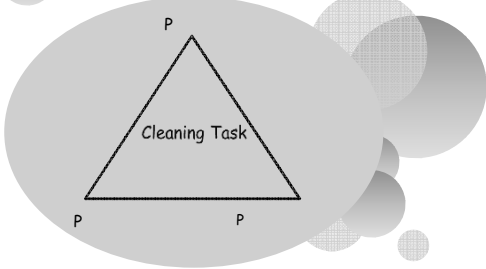


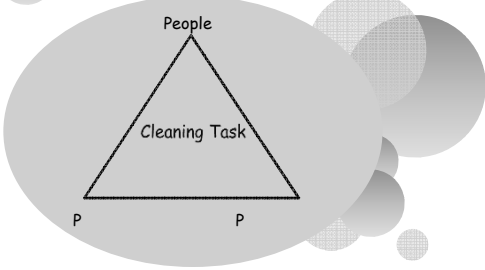
Introduction to Cleaning

What is the Cleaning Task?
What affects Cleaning?
What is pH?
How do cleaning chemicals work?

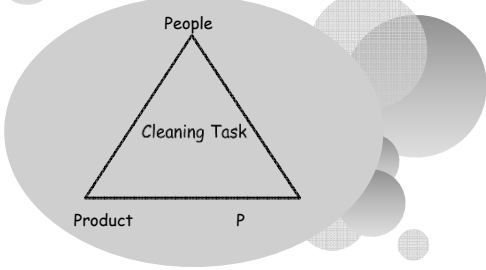
What is the Cleaning Task?



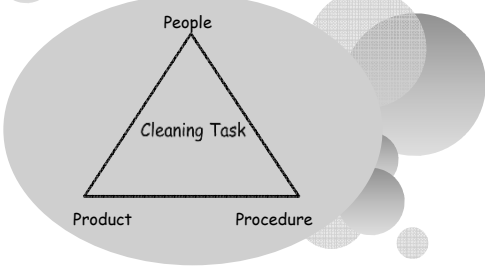
What is the Cleaning Task?



What is the Cleaning Task?



What is the Cleaning Task?



What affects Cleaning?

Soil transferal versus soil removal

3 ways that affect cleaning in the physical world
3 ways to affect cleaning in chemical products

What affects Cleaning?

3 ways to affect cleaning in the physical world

1. Time

What affects Cleaning?

3 ways to affect cleaning in the physical world

1. Time
2. Temperature

What affects Cleaning?

3 ways to affect cleaning in the physical world

1. Time
2. Temperature
3. Agitation

What affects Cleaning?

3 ways to affect cleaning in chemical products

1. Time
2. Temperature
3. Agitation
4. pH

pH = the power of Hydrogen

Scale to the power of 10

Acid	Neutral	Alkaline												
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Delimer	Vinegar	Orange Juice					All Purpose	Degreaser	Oven & Grill Stripper					

Acid Cleaners are measured by type and then % of acid

Commercial acid types
Sulfuric
Hydrochloric/Muriatic
Phosphoric

What affects Cleaning?

3 ways to affect cleaning in chemical products

1. Time
2. Temperature
3. Agitation
4. pH
5. Solvents

What affects Cleaning?

3 ways to affect cleaning in chemical products

Typical Solvents

Glycol Ethers / Butyl

What affects Cleaning?

3 ways to affect cleaning in chemical products

Typical Solvents

Glycol Ethers / Butyl
Citrus Terpene / d'Limonene

What affects Cleaning?

3 ways to affect cleaning in chemical products

Typical Solvents

Glycol Ethers / Butyl
Citrus Terpene / d'Limonene
Alcohol

What affects Cleaning?

3 ways to affect cleaning in chemical products

Typical Solvents

Glycol Ethers / Butyl
Citrus Terpene / d'Limonene
Alcohol
Pine Oil

What affects Cleaning?

3 ways to affect cleaning in chemical products

1. Time
2. Temperature
3. Agitation
4. pH
5. Solvent
6. Bio-Activity

What affects Cleaning?

{ Bio-Activity }

Enzymes break down organic material such as:
blood, paper, hair, urine, etc.

Bacteria use the broken down material as food

When bacteria eat, they reproduce . . . quickly

Works as long as it stays wet

What affects Cleaning?

6 ways to affect cleaning

1. Time
2. Temperature
3. Agitation
4. pH
5. Solvent
6. Bio-Activity

How do cleaning chemicals work?

Synthetic Detergent
Versus
Soap

Properties of a Detergent

How do cleaning chemicals work?

Properties of a Detergent

- Wetting

How do cleaning chemicals work?

Properties of a Detergent

- Wetting
- Penetration

How do cleaning chemicals work?

Properties of a Detergent

- Wetting
- Penetration
- Emulsification

How do cleaning chemicals work?

Properties of a Detergent

- Wetting
- Penetration
- Emulsification
- Soil Suspension

When you consider -

Properties of a Detergent

- Wetting
- Penetration
- Emulsification
- Soil Suspension

The 3 P's

Six that affect cleaning

1. Time
2. Temperature
3. Agitation
4. pH
5. Solvent
6. Bio-Activity

3 principles of professional cleaning

1. Clean from high surfaces to low
2. Clean from dry to wet
3. Clean in a pattern

Dilution ratios are important

128 ounces = 1 gallon

1:512	= 1/2 oz. per gallon
1:256	= 1/4 oz. per gallon
1:128	= 1 oz. per gallon
1: 64	= 2 oz. per gallon
1: 32	= 4 oz. per gallon
1: 10	= 13 oz. per gallon

Cleaning Tips & Safety

Read directions

Understand product usage

Dilute Properly

Never mix chemicals

Wear Protective Clothing

When in doubt, ask

Logo - company message here