

# Hygienic Design Risks Workshop 1

3-A SSI

# Hygienic Design Process

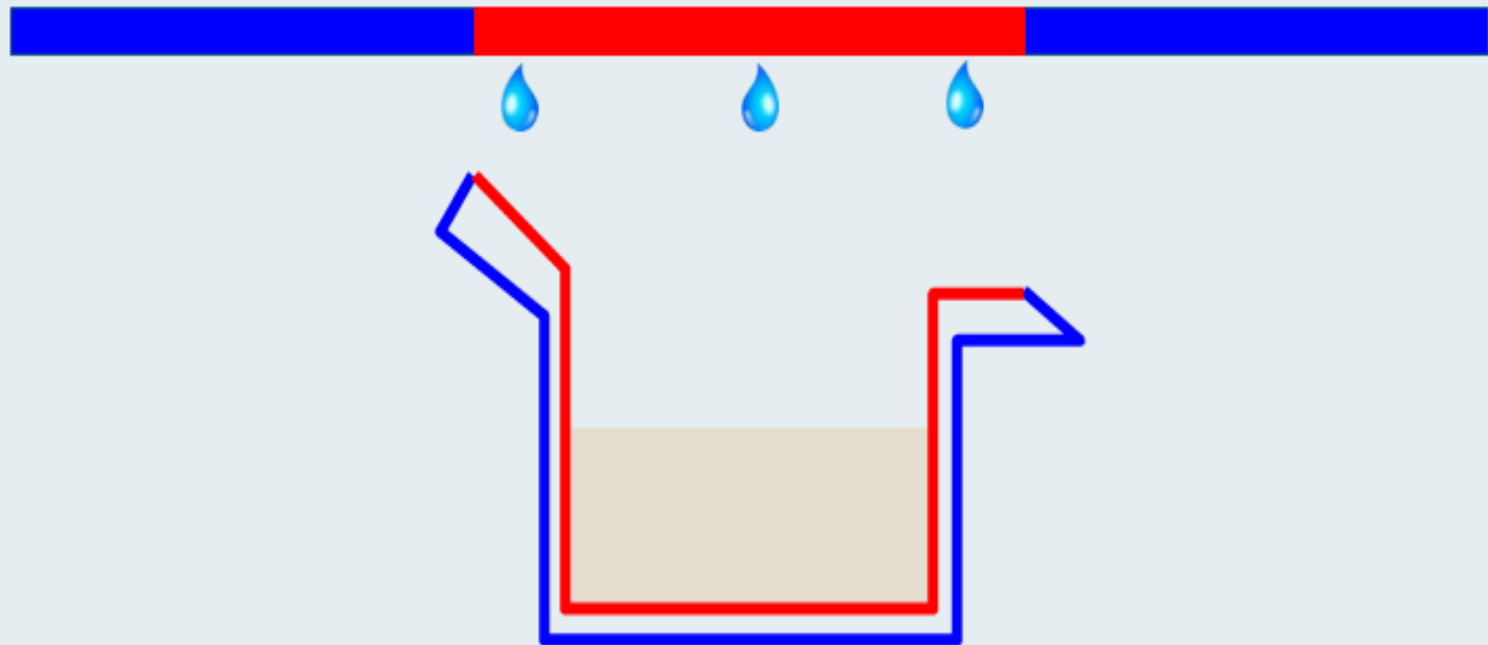
- Define Intended Uses & Risks
- Define Product Zones
- Define Cleaning Method
- Select Approved Materials of Construction
- Provide Accessibility to Clean and Inspect
- Design and Build to Meet Hygienic Criteria

# Define Intended Uses & Risks

<b>Risk Level</b>	<b>Intended Use and Products</b>	<b>Process Type</b>	<b>Customer</b>
<b>High</b>	Injectable Drugs Infant Formula RTE Foods	Post Thermal Treatment	Infant Elderly Pregnant Immune Deficient
<b>Medium</b>	Low Acid Foods Fresh	Pre- Thermal Treatment	Healthy Children
<b>Low</b>	High Acid Foods Raw Foods to be Cooked	In package	Healthy Adults

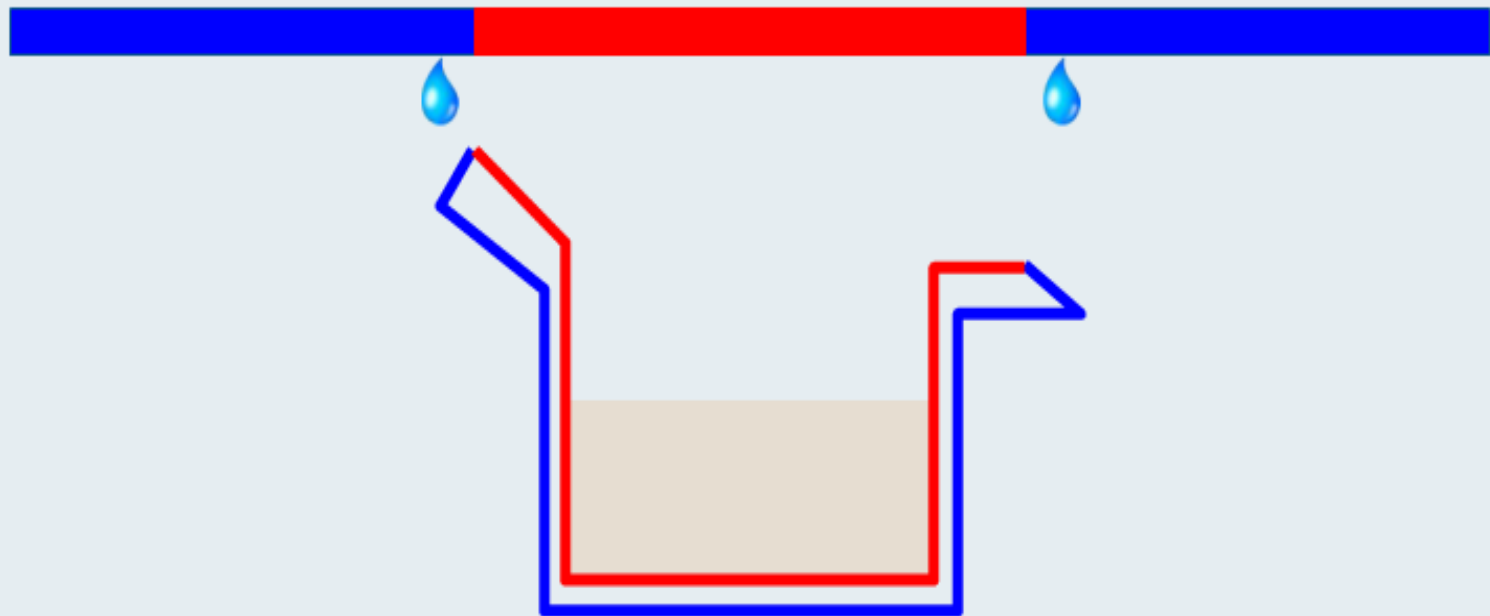
## DEFINITION: PRODUCT CONTACT SURFACES

All surfaces which are exposed to the product and from which splashed product, liquids, or soil may drain, drop, diffuse or be drawn into the product or onto surfaces that come into contact with product surfaces of packaging materials.



## DEFINITION: NON-PRODUCT CONTACT SURFACES

All exposed surfaces from which splashed product, liquids, or other soils cannot drain, drop, diffuse or be drawn into or onto the product, product contact surfaces, open packages, or the product contact surfaces of package components.



# Key Cleanability Design Considerations

- Material of Constructions
- Surface Finishes
- Joint Design
- No Cracks or Crevices
- Free Draining
- No Dead Legs – Blind Spots - Hollows
- Accessibility to Clean
- Accessibility to Inspect

# Workshop Exercise Worksheet 1

<b>Workshop Exercise #</b>					
<b>What is the intended use?</b>					
<b>Process Type?</b>					
<b>Customer?</b>					
<b>What is risk level? High – Medium - Low</b>					
<b>Type of surface? PCS or NPCS</b>					
<b>How to clean? Manual – COP - CIP</b>					
<b>Material Type?</b>					
<b>Comments:</b>					