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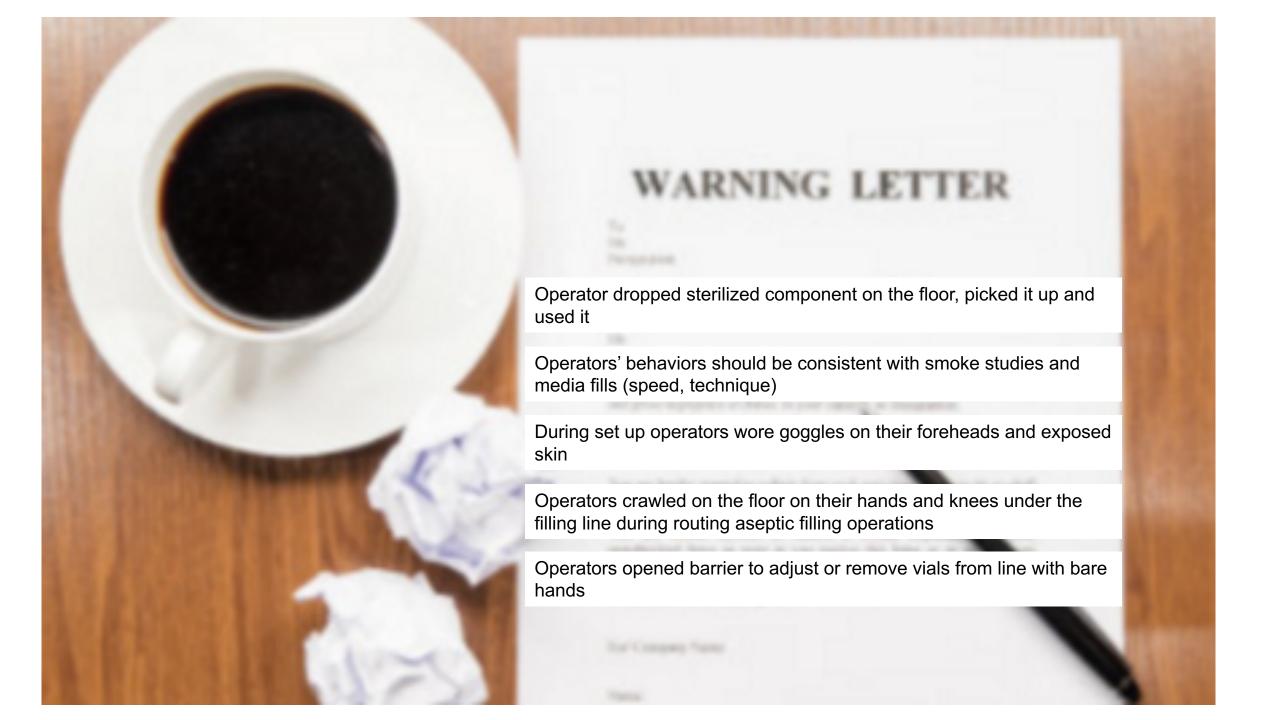
EXECUTIVE DIRECTOR, QUALITY SCIENCES MARCH 14, 2017







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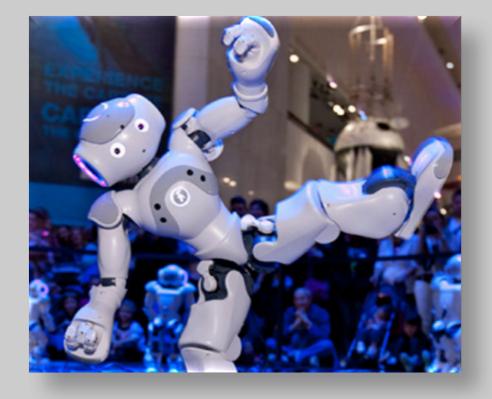


Humans are not Robots



"I fear the day that technology will surpass our human interaction. The world will have a generation of idiots."

Albert Einstein



Utilization of the Six Boxes® Approach Helped Identify Factors that Impact Individual Performance



Amgen is Dedicated to Continuous Improvement of Aseptic Processing Operations

AMGEN'S ASEPTIC PROCESSING PROGRAM

Aseptic Manufacturing Requirements Amgen recently launched a holistic behavior Program to enhance aseptic behaviors.

The Program utilizes multiple components to ensure continual and sustainable improvements in the aseptic processing environment.



Expectations

Critical Aseptic Behaviors

Move Slowly and Deliberately

Protect Sterility of Equipment, Components and Product

Maintain Gowning Control

Be Aware of Body Positioning

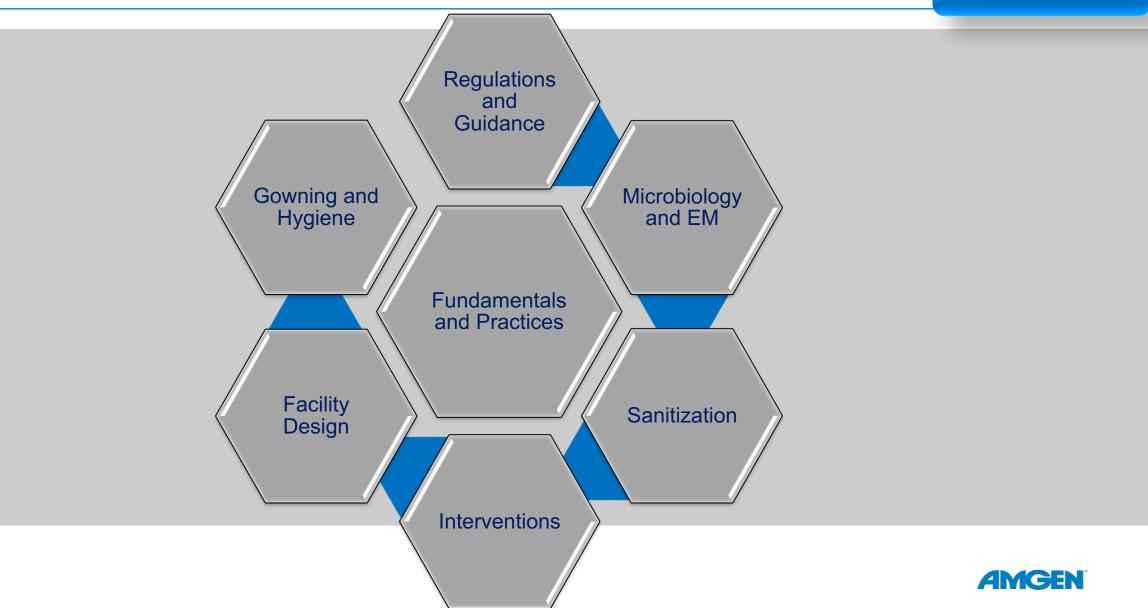
Practice Good Hygiene







Improved Training Program



Tools /
Resources

Aseptic Processing Coaching Program to Increase Aseptic Awareness

- Aseptic Processing Coach
 - Front Line Managers
 - Plant Quality Assurance
 - Aseptic Processing Subject Matter Experts
- Aseptic Processing Coaches must include:
 - Enhanced Aseptic Processing Training
 - Effective Coaching Training
 - Participate in, or Lead, Learning Groups



Aseptic Processing Program Oversight

In order to provide standardized and consistent feedback and real-time evaluation, we established a global scoring system.

 Behavior Evaluation Tool (BET): Plants use the Aseptic Processing Behavior Evaluation Tool (BET) for tracking adherence to defined aseptic behaviors



Aseptic Processing Program Tools

Human Performance Tools improve focus for critical tasks and reduce the occurrence of mistakes. Understanding and evaluating human errors for reduction/elimination of latent conditions is a key improvement opportunity.

The Behavior Observation Program (BOP) is focused on positive, *peer-to-peer* feedback and builds on things done correctly.



Aseptic Processing Program Metrics

- Adherence to the Aseptic Processing Program must be tracked as part of plant performance and management oversight.
- Review of behavior information should be included in existing forums including:
 - Daily work team meetings
 - Front line management meetings
 - Plant/Building metric reviews
 - Site Management Review (MR)



Final Thought...

We Really need to Provide Tangible Benefits to Ensure Long-term Sustainability...





