

## Cleaning and Disinfection – Cleaning

### Lesson Objectives:

At the end of this lesson, you should be able to list and sequence the various cleaning terms and procedures at Biogen.

### **Cleaning considerations**

Reliable and effective cleaning is paramount at Biogen since cleaning **constantly** takes place here, and so everyone need also be familiar with the various **cleaning** terms and **processes**.

### **Distinctive terms for cleaning**

For the sake of accuracy, it is useful to distinguish between the following commonly used terms:

- To 'clean' involves using detergents, **solvents**, or other cleaning agents to remove dirt, impurities, or extraneous matter from particular **surfaces**. This process, however, does not eliminate most infectious **microorganisms**;
- To 'disinfect' means applying **chemical** products that kill potentially **infectious** microorganisms as well as some types of spores;
- To 'sterilise' means using heat or steam, which destroys microorganisms, spores and **viruses**.

### **Program and guidelines for cleaning procedures**

- The use of non-cleanroom specified cleaning **agents** is to be avoided.
- DI water (deionised water) is preferable for **scrubbing** all surfaces, **floors**, walls, and benches.
- The use of scrubs, rags and powder **detergents** and surfactants in the cleanroom is prohibited, since these shed **particles** like woven polyester, which produce shedding or tearing during cleaning.

The use a moveable autoclave multi-bucket **mopping** system on non-marring wheels, and deep-drawn seamless buckets, is designated for clean- &/dirty-water control.

- Floors are to be damp-mopped using distilled\* water daily, before **regular** work shifts.
- Floors are to be damp-mopped weekly with a clean-room detergent and distilled **water**, and with a HEPA (high efficiency particulate air) filter vacuum-cleaner.
- Walls are to be vacuumed daily.
- Walls are wiped once, weekly, with a damp clean-room sponge using distilled water.
- Windows and clean-room pass-throughs are to be **washed** and **wiped** dry daily with lint-free 70% IPA wipes.
- Ceilings are to be vacuumed daily, wiped with a damp sponge and distilled water weekly, before being vacuum-dried.
- If necessary, ceilings are to be washed with detergent and distilled water to remove any remains.
- All daily **cleanings** except for floors may be performed during regular work shifts.
- Overhang light lenses and troffer light fixtures need be wiped with a damp **sponge** and distilled water weekly, and then vacuum dried.
- Sticky-mats in the cleanroom should be replaced without hesitation, when showing **dirt** on it.

\* **Distilled water** is water that has been boiled so that it evaporates and then re-condensed, leaving most impurities behind. **Deionised (DI) water** is water that has been treated to remove all **ions** – typically, that means all dissolved **mineral** salts are gone.