## **Basic Principles of Safety – Gowning**

garments before crossing the marker (bench).

Your Objectives:

At the end of the lesson, you should be able to explain the ins and outs of gowning and so that you may apply these appropriately.

Gowning
Our bodies are constantly shedding particles (follicles) from our
(derma), and these can contain —common ones are impetige
folliculitis, and furuncle, which have usually entered through skin abrasions—not to mentio possible pathogens such as S aureus, $\beta$ -hemolytic streptococci, and coryneform bacteria.
Without special attire to contain these, the clean-room would
easily fall short of the specified for cleanliness. As such, Biogen Ide
supplies its manufacturing personnel with gowning materials and special protective
, which must be donned prior to entering a cleanroom.
The details below outline responsibilities and guidelines. Consu
SOPs (standard operating procedures) for your area, as these will detail gowning requirements.
Gowning areas  Different manufacturing areas have one or more adjoining gowning areas, generally equipped wit
lockers. There are separate locker-rooms designated for wome
and for men. Each gowning area allows for a limited of persons t
gown at any one time.  A gowning bench divides the room into a "clean" gowning level and a "dirty" gowning level. The bench provides a line of demarcation so that an employee will either don or remove the property.

Regular dress	
Certain employees are to we	on the job (instead of their
regular clothes) until the end	of their shift.
Footwear	
Almost all	personnel are required to wear dedicated plant
	shoes. These shoes are provided for by Biogen and are used only in
manufacturing	. Dedicated plant safety
	are kept and to be left in the lockers. At the start of a shift, the
	ed shoes. And at the shift's end, employees will return the designated hanging back into regular footwear.
Gowning apparel	
Each work area at Biogen req	uires different types of gowning .
The following list, though not	exhaustive, includes most types of gowning apparel used at Biogen:
• Head /	covers
Safety glasses /	
Beard covers	
Protective /	& cleanroom gloves
• Masks	
• Safety	
Booties, or shoe covering	ţs
Under-suit	
Single-use gowns	
• Reusable	
• Everyday-use gowns	

- Scrubs
- Lab coats
- Cleanroom jumpsuits
- Cleanroom coveralls

SOPs describe gowning requirements for each area, as well as gowning stipulations for moving from one area to another.

Gowning practice	
Basically, gowning procedures include the	following (though not all
areas require all steps).	
gowning:  • bespoke plant safety-shoes  • everyday-use plant	esignated locker-room to don the minimum required
2. Enter the appurtenant gowning	area. Allow any personnel de-gowning to finish before
gowning yourself. Do not enter a	a room if someone with a
than required gowning is present  3. Begin your gowning on the correct sid	e of the bench.
4. Cover your	/hair first.
<ul><li>5. Put on a beard cover (if needed).</li><li>6. Wear an under-suit (if required).</li></ul>	
7. Wash	thoroughly before putting on changing gloves (if
required) 8. Put on a facemask.	
9. Put on a coverall/body	. Do not allow garments to ever
•	put a shoe cover on one foot, swing that leg over the oss the bench, follow the same process with the second

shoe cover, before revolving your torso over fully to the clean side, when done.

garments are properly fitted and are unblemished.

11. Inspect yourself in a mirror or ask a co-worker to inspect your apparel to ensure your

12. Remove changing gloves	and put on			gloves (if required).
13. Put on safety glasses and	l/or other facial			
14. Disinfect		or gloves (if req	juired).	
De-gowning				
De-gowning is essentially the			process: F	Remove all gowning
materials. Place reusable material	s in the approp	riate bins. Disca	ard	
gowns, shoe covers, head covers,	masks, beard			, and gloves. Allow
personnel who are gowning to fir different than required gowning if exit, then enter.	· · · · · · · · · · · · · · · · · · ·		_	
In emergencies				1
In the event of an emergency or u	nanticipated			, <u>do</u> take a minute to
de-gown immediately <u>after</u> exiting	the cleanroom	1.		
Upon returning to manufacturing	3		, gown ap	opropriately. Remove
dedicated shoes and clean them the	noroughly. Re-g	own when ente	ring again th	e cleanroom.
Movement				
The ways in which we move—ou	ur postures,			, our positions, our
speed, — inevitably disturb the laproduce turbulence, and therefor		_	•	• • • • • • • • • • • • • • • • • • • •
Standing or sitting, moreover, will	cause a differe	nt		dispersion level
from those personnel moving	about. What	follows are	a few gen	eral considerations/
wh	en occupying a	space within a c	cleanroom:	

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Move significant	owly and deliberately, wi	th econom	ly of movement				
• Alway	s sit		at a workspace				
<ul> <li>Approac</li> </ul>	h other technicians from	ı behind; av	void talking to son	neone from a	cross the	workspace	
• Wher	carrying		, have y	our hands a	t the b	ase of the	
conta	iner						
Hold ma	terials you carry at or ab	ove waist I	evel				
• Ensur	e that your hands touch	n and		and	manoeuv	re only the	
Code of norm	ns	and mate	rials necessary to	perform a giv	en task		
Besides			appropriate	gowning	and	moving	
the cleanroom		ollowing cu	ustoms are strictly			in	
• No smok	uming food and drink ing, chewing gum or tob	acco, etc.		materials (	e.g. no	magazines,	
news	papers, etc.)						

 $\begin{tabular}{lll} Additional & information: & $https://blog.gotopac.com/2018/01/26/cleanroom-cleaning-procedure-contamination-control-iso-14644-1-protocol/ & the contamination-control-iso-14644-1-protocol/ & the contamination-contamination-control-iso-14644-1-protocol/ & the contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-contamination-con$ 

## **Aufgabe Lückentext:**

Folgende Wörter bitte in den Lückentext einfüllen. Jedes Wort kommt einmal vor. Bitte Gross- und Kleinbuchstaben beachten.

apparel, apparel, areas, areas, bacteria, covers, correctly, different, disposable, environment, garment, gowning, gowns, goggles, gestures, Hair, head, hands, hands, handle, incident, manufacturing, materials, number, observing, personal, particle, protection, practices, prohibited, requirements, reverse, rules, reading, skin, shoes, shoes, steps, safety, tools, uniform, uniform, working, working