

Attach this completed form to the relevant WPC activities where this OJT is required. To learn how, see the instructional video "How to use the OJT Tool in Activity Manager (Video)" at the OJT Website (https://training.lbl.gov/OJT/).

This OJT is for qualifying workers to use EMF-generating devices.

Note: See back page for the meanings of these column-headings

Pre	paration Steps (setup)	Student Explains	Student Demos	Critical Step	Risk Important Action	Common Error	Instructor
1.	 Trainee understands the hazards for the use of the electromagnetic radiation devices and the controls used in their operations: Projectiles – the immediate danger associated with magnet environment is the attraction between the magnet and ferromagnetic objects. People with metallic implants (e.g., cardiac pacemakers, cochlear implants, defibrillators, drug delivery systems, and other medical devices) may experience the device's malfunctioning if subjected to magnetic fields > 5 Gauss. Cryogenic Gas Issues: Quench To eliminate the risk of exposure to EMF, engineering and administrative controls must 	X					
2.	be implemented wherever possible. Trainee is familiar with the manufacturer's manuals and understands specific safety-related information.	x					
4.	Trainee can correctly use applicable engineering controls: - Shielding - Quench protection - Interlocks - Areas where whole-body exposures to 60 Hz fields exceed 25 kV/m or 1 mT (10 G) must be restricted by positive means such as locked enclosures, interlocks, or safety chains Engineering controls for superconducting magnets - Installation of cryogen level sensor system and liquid helium purge vent. Trainee selects and uses applicable PPE: - PPE for cryogens: wear insulated gloves and face shields or other splash eye/face protection, closed-toed shoes, and lab coats Insulating garments and equipment where		x				
5.	60-Hz electric fields exceed 5 kV/m. Trainee posts appropriate warning signs.		x				

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	Trainee restrict access to authorized personnel.		Х		
7.	, , ,	Х			
	exposure:				
	 Unpleasant effects such as vertigo during 				
	head or body movements in areas with EMF				
	above 8 T.				
	- Static or pulsed magnetic fields may influence				
	the working order of electronic and metal				
	implanted devices. Persons wearing metallic				
	implants, such as bone or articular				
	prostheses, surgical clips, nails or screws in				
	broken bones, body piercing may feel painful				
	sensations, if exposed to high magnetic fields.				
Per	forming the task or Activity				
1.	Trainee can safely use the EMF-generating device		х		
2.	Trainee is using techniques for minimizing EMF		х		
	exposure such as:				
	- Keeps ferromagnetic tools and objects out of				
	places where elevated static magnetic fields				
	are present.				
	- Restrict access by pacemaker users to places				
	where whole-body magnetic fields exceed 5				
	G.				
	- Exposure can be controlled by varying the				
	distance from the source.				
Cle	an up (what is done after performing the task)				
1.	Trainee turns off the device.		х		
2.	Trainee stores all PPE appropriately.		х		
Em	ergency Response				
1.	Trainee understands what to do if something	х			
	unexpected occurs, such as an off-normal event,				
	quench, overexposure, or other emergency:				
	- Turn Off the device				
	- Remove the worker from the exposure area.				
	- Seek immediate medical attention.				
	- Notify your supervisor at first opportunity, no				
	matter how minor the injury may seem.				
Inst	Instructor Notes				

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This form helps you document the contents of your OJT sessions. From within WPC, you can attach the completed form to the relevant Activity, or place it in a network drive and link to it from the Activity. See: https://training.lbl.gov/OJT/

Instructions

Add or delete rows and/or categories as need. Add the steps needed to perform the task/activity.

The template is arranged in blocks. Use the blocks that are helpful to you and delete blocks that don't apply. You can also add rows and blocks as-needed. Likewise, use the columns that apply to your OJT and ignore the ones that don't.

Steps

List the steps the student must be able to perform to execute this task correctly. Use the columns to indicate your expectations for the student, and to remind yourself if a step cannot be easily undone ("critical step"), if this is a step necessary for reducing risk in a later step ("risk-important action") or if students frequently make a common error.

Other things you should consider noting in this column include:

• Why (e.g., "Why is this step necessary?") and What-If (e.g., "What if I forget to do this step or do it wrong? What could happen?") questions related to this step

Student Explains

Check this column if the student must *explain* something (e.g., how to respond to a particular emergency or off-normal condition).

Student Demos

Check this column if the student must *demonstrate* something (e.g., how to put on proper PPE). In general, it's preferable to have the student demonstrate rather than just explain.

Critical Step

Mark this column if this is a *critical step*, meaning, it's a step that can't be easily undone. (e.g., once you combine two chemicals in the same beaker, you can't easily "uncombine" them). You and the student should both verify that everything is as it should be before executing a critical step.

Risk Important Action

Mark this column if this is a *risk important action*. For example, putting on your seatbelt is a risk-important action because it mitigates the harm you could experience if your car is involved in a crash. By itself, it makes no difference, but in an emergency, it can make a very big difference. In laboratory terms, this could be analogous to keeping a spill kit nearby in case there's a chemical spill, or ensuring you have calcium gluconate gel nearby if you are working with hydrofluoric acid.

Common Error

Check this column if there are known, common mistakes that people make. If this row is documenting such a step, identify those common errors for the student, clarify why so many people make them, and ensure that the student knows to avoid them.

Instructor

Some OJT is taught by multiple instructors, each taking responsibility for a different portion of the session. If that is the case for your OJT, use this column to mark (with the instructor's name) which instructor teaches which steps. If your OJT has only one instructor, you can just put the instructor's name in this column in the first row and leave the rest of the column blank.