

Slide 1



Welcome to the on-line training course for Waste Management!

Slide 2

Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Course Information

Course Title:	Waste Management Non-Clinical
Regulations/Standards:	PA Department of Health, PA Department of Environmental Protection, Centers for Disease Control and Prevention, the Joint Commission, US Environmental Protection Agency, and the U.S. OSHA.
Approximate Time to Complete:	15 Minutes
Intended Audience:	Clinical
Technical Specifications:	Flash Player 9, Internet Explorer 6 Course Contains No Audio, PLEASE REVIEW NOTES TAB FOR MORE COURSE INFO
Date Revised:	November 1, 2012

Contact Information

Please forward any content questions or concerns to the Subject Matter Expert: Donald Hougendobler @ 610-969-4487

Please call the Help Desk at 610-402-8303 with any technical issues

Click next to continue.

The course will take approximately 15 minutes to complete. If you have questions about this course, please contact the Subject Matter Expert listed on this screen. If you have any technical problems or questions, please contact the help desk at 610-402-8303. This course does not contain audio narration, please review the notes tab for more course information. To review the navigational features of the course, click on the Navigation tab at the top of the screen.



The image is a screenshot of a presentation slide. At the top left, there is the Lehigh Valley Health Network logo with the tagline 'A PASSION FOR BETTER MEDICINE'. The slide title is 'Welcome to the on-line training course for Waste Management!'. Below the title, a paragraph states: 'Lehigh Valley Health Network is committed to protecting and improving the environment. This is done by ensuring that municipal waste, hazardous waste and recycled materials are disposed of and/or recycled in a manner that is compliant with the requirements of the following regulatory agencies:'. A bulleted list follows, listing: PA Department of Health, PA Department of Environmental Protection, Centers for Disease Control and Prevention, The Joint Commission, US Environmental Protection Agency, and U.S. OSHA. On the right side of the slide, there is a smaller version of the Lehigh Valley Health Network logo. At the bottom left, there is a small icon and the text 'Click next to continue.'

Welcome to the on-line training course for Waste Management!

Lehigh Valley Health Network is committed to protecting and improving the environment. This is done by ensuring that municipal waste, hazardous waste and recycled materials are disposed of and/or recycled in a manner that is compliant with the requirements of the following regulatory agencies: PA Department of Health, PA Department of Environmental Protection, Centers for Disease Control and Prevention, the Joint Commission, US Environmental Protection Agency, and the U.S. OSHA.

Slide 4

Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Course Objectives

Upon completion of this course, you will be able to:

- Recognize how to properly segregate solid waste into the proper waste streams
- Select the appropriate procedures and engineering controls when disposing of waste materials
- Identify the proper protocols to follow when autoclave technology is utilized

Demonstrate Knowledge

Click next to continue.



By the end of this course, you will be able to recognize how to properly segregate solid waste into the proper waste streams, select the appropriate procedures and engineering controls when disposing of waste materials, and identify the proper protocols to follow when autoclave technology is utilized.

If you feel you have already mastered the content described in the course objectives and would like to demonstrate your knowledge, you may click the “Demonstrate Knowledge” button and move directly to the course test. You must earn a score of at least 80% on the test to successfully pass this course.

However, it is suggested that you review the content as it has been updated. To continue onto the course content, please select the next button located at the bottom of the screen.

 Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Regulated Medical Waste

Regulated Medical Waste (RMW) is also known as red bag waste, bio-hazardous waste or infectious waste.

RMW is defined as:

- All wastes from hospitals, clinics, or other health care facilities that contain or have come into contact with diseased tissues or infectious microorganisms.

Infectious waste, which is hazardous waste with infectious characteristics, also include the following:

- Pathological Waste
- Chemotherapeutic Waste
- Sharps



Click next to continue.

Let's start with Regulated Medical Waste or RMW, also known as red bag waste, bio-hazardous waste or infectious waste.

RMW is defined as all wastes from hospitals, clinics, or other health care facilities that contain or have come into contact with diseased tissues or infectious microorganisms.

Infectious waste, which is hazardous waste with infectious characteristics, also includes the following: Pathological Waste, Chemotherapeutic Waste, and Sharps.

Slide 6

 Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Proper Trash Can for Patient, Exam and Treatment Rooms

Regulated medical waste is collected in a step-on red container lined with a red bag.

These containers should be in all patient rooms, exam rooms and treatment rooms. Sizes vary from 8 gallons to 18 gallons depending on volume and service.






Click next to continue.

Regulated medical waste is collected in a step-on red container lined with a red bag. These containers should be in all patient rooms, exam rooms and treatment rooms. Sizes vary from eight gallons to eighteen gallons depending on volume and service.



RMW – What Goes in the Container?

Click on each regulated medical waste item to learn more about what goes in the container.



Items Saturated with Blood or Body Fluid including PPE

Click next to continue.

Click on each regulated medical waste item to learn more about what goes in the red step-on container.

- 1) Items saturated with Blood or Body Fluid including PPE
 - 2) Tubing
 - 3) Foley Catheter & Bag
 - 4) Blood or Hemodialysis Products
 - 5) Specimen Containers (NO GLASS)
 - 6) Diapers
- (Adult or Infant) Only if infected with a known infectious organism or are saturated with blood



The image shows a screenshot of a 'Knowledge Check' interface from Lehigh Valley Health Network. At the top left is the logo with the tagline 'A PASSION FOR BETTER MEDICINE'. The main heading is 'Knowledge Check'. Below it, the question reads: 'What items belong in an infectious waste bag (red bag)? Drag and drop all items that DO belong in an infectious bag to the red step-on container and click Submit to check your answer. You may also view why other things don't belong in this container by clicking on Feedback.' The interface features a red step-on container on the left. In the center, there is a red box labeled 'Hazardous items in trash' containing icons for a blood splatter, a needle, and a bandage. To the right of this box is a 'Feedback' button. Above the container and trash box are several dashed-line icons representing various items: a rectangular piece of paper, a syringe, a glass bottle, a square, a speech bubble, a bandage, and another syringe. At the bottom left, there is a small instruction: 'Click next to continue.'

What items belong in an infectious waste bag or red bag? Drag and drop all items that DO belong in an infectious bag to the red step-on container and click Submit to check your answer. You may also view why other things don't belong in this container by clicking on the Feedback button.

Why other items don't belong:

Close



- 1 Patient information is shredded and recycled; this will go into the Blue Recycling Container
- 2 Needles are considered sharp, therefore would be placed into the sharps container
- 3 Glass bottles depend on if it is a bottle you drink from then it goes into the Green container, if it is a medication bottle or any other glass bottle then it would go into the designated sharps container
- 4 All syringes including oral and needle syringes are to go into the sharps container regardless if it has been used or not

Click each tab below to learn more on the Do's and Don'ts of RMW Handling Procedures.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

Regulated Medical Waste Handling Procedures

Click each tab below to learn more on the Do's and Don'ts of RMW Handling Procedures.



Do's

- Practice standard precautions by:
 - Wearing Gloves
 - Wearing Goggles
 - Washing hands frequently
 - Asking questions when you are unsure
- Keep bags away from your body
- Always place the bag in the red waste container only

◆ Click next to continue.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

Regulated Medical Waste Handling Procedures


Click each tab below to learn more on the Do's and Don'ts of RMW Handling Procedures.



Don'ts


- NEVER handle waste without the appropriate Personal Protective Equipment (PPE)
- NEVER push down on a bag or force waste into a bag
- NEVER commingle your waste; infectious waste is to be handled separately from the trash—never place trash bags and infectious waste bags together
- NEVER commingle your regulated medical waste with other waste streams
- NEVER place the bagged regulated medical waste onto the floor

◆ Click next to continue.

 Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE


Sharps

Sharps are defined as needles, scalpel blades, broken ampoules, tweezers, scissors, razors, etc. Anything in a hospital or clinic which has been used on patients, and which may be contaminated with infectious material, and is deemed to puncture through a bag should be discarded into special containers for disposal without any risk to disposal personnel.



◆ Click next to continue.







Sharps are defined as needles, scalpel blades, broken ampoules, tweezers, scissors, razors, etc. Anything in a hospital or clinic which has been used on patients, and which may be contaminated with infectious material, and is deemed to puncture through a bag should be discarded into special containers for disposal without any risk to disposal personnel.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE™

What Goes in the Sharps Container?

Sharps are placed into rigid puncture proof containers. To reduce the risk of a needle stick injury from an over-filled container, sharps containers should be emptied when they are $\frac{3}{4}$ full! Click on the sharps container to view what types of waste go in that receptacle. Once waste items are revealed, click on them to learn more.

Things that can go in the Sharps Container?

 Scalpels	 Tweezers	 Scissors
 Needles	 Glass Specimen Containers	 Syringes

Click next to continue.

Sharps are placed into rigid puncture proof containers. To reduce the risk of a needle stick injury from an over-filled container, sharps containers should be emptied when they are three quarters full! Click on the sharps container to view what types of waste go in that receptacle. Once waste items are revealed, click on them to learn more.



Containerized waste includes suction canisters, pleurovacs, hemovacs, wound vacs, etc. containerized waste can NOT be autoclaved. Click each box below to learn more about the Containerized Waste Protocols Process.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

What Goes in the Double Red Bag?

Click the double red bag to view what types of waste go in that receptacle. Once waste items are revealed, **click** on them to learn more. Then you may view what happens next to the double red Bag by **clicking** on Feedback.

Things that can go in the Double Red Bag?

Suction Canisters and Liners 	 Heart and Lung Machine – TUBING and Canister Mechanisms	Hemovacs 
 Pleurovac	Feedback Click feedback to learn more.	 Woundvacs

Click next to continue.

Click the Double Red Bag to view what types of waste go in that receptacle. Once waste items are revealed, click on them to learn more. Then you may view what happens next to the Double Red Bag by clicking on Feedback.

Things that can go in the Double Red Bag?

What happens next to the Double Red Bag:



All of these items go in the Double Red Bag, and then nursing brings the Double Red Bag to the Soiled Utility Room and places it into a grey container with a Red Bag liner (primary). A designated cardboard box with a Red Bag liner can be used as a backup (not shown).

Then, General Services transports the grey container or cardboard box from the Soiled Utility Room to the Loading Dock.

Close

 Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Pathological Waste

Pathological waste is defined as:

- All human or animal anatomical wastes including human tissues, organs, or body parts.



Click next to continue.

Pathological waste is defined as all human or animal anatomical wastes including human tissues, organs, or body parts.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE


Autoclaved Waste

Autoclaved waste is defined as infectious waste/bio-hazardous waste that has been disinfected and/or sterilized.



Click next to continue.

Autoclaved waste is defined as infectious waste or bio-hazardous waste that has been disinfected and/or sterilized.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

Autoclaved Waste

Currently, LVH-CC and LVH-M are the only sites that use an autoclave to sterilize regulated medical waste.

Waste that will be autoclaved needs to be placed in an autoclave bag. This bag has an indicator strip that shows it has been sterilized and the bag can withstand the pressure and the temperature of the autoclave unit.



Click next to continue.

Currently, LVH-CC and LVH-M are the only sites that use an autoclave to sterilize regulated medical waste. Waste that will be autoclaved needs to be placed in an autoclave bag. This bag has an indicator strip that shows it has been sterilized and the bag can withstand the pressure and the temperature of the autoclave unit.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

Autoclaved Waste

Infectious waste (regulated medical waste) is generated at the patient bedside, exam room, treatment room, etc.




Step 1:
Remove red bag from container

Step 2:
Place red bag into orange autoclave bag

Click next to continue.

Infectious waste or regulated medical waste is generated at the patient bedside, exam room, treatment room, etc.





Chemotherapeutic Waste Disposal

Chemotherapy waste is waste that is generated from chemotherapy operations and procedures.

Chemotherapeutic waste is to be placed into a disposal box lined with a yellow bag and a CHEMO caution label.

The box is sealed and disposed of by incineration.

PLEASE NOTE:
Chemotherapeutic Waste that has at least 1 ml or 1 cc left in the bag, tube, syringe, etc. should be disposed of in a black Resource Conservation Recovery Act (RCRA) container



Click next to continue.

Chemotherapy waste is waste that is generated from chemotherapy operations and procedures. Chemotherapeutic waste is to be placed into a disposal box lined with a yellow bag with a CHEMO caution label. The box is sealed and disposed of by incineration.

 Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Non-Regulated Waste

At LVHN we are continuously making efforts to reduce the amount of waste that we are placing into the landfills. Our recycling efforts and waste reduction efforts are all focused on environmental sound practice.

However, there are still some items that cannot be recycled or do not fall under the definition of RMW. These items are referred to as non-regulated waste which is also known as general trash, clear bag waste or municipal waste.



Click next to continue.

At LVHN we are continuously making efforts to reduce the amount of waste that we are placing into the landfills. Our recycling efforts and waste reduction efforts are all focused on environmental sound practice.

However, there are still some items that cannot be recycled or do not fall under the definition of RMW. These items are referred to as non-regulated waste which is also known as general trash, clear bag waste or municipal waste.



Non-Regulated Waste: What Goes in the Clear Bag Waste Container?

Examples of regular waste items that are placed into a clear bag are:

- Gloves and other PPE that is NOT visibly contaminated with blood or body fluids
- Tissues
- Paper towels
- Package/wrapping materials
- Foam cups, paper cups, etc.

Click next to continue.

Some examples of regular waste items that are placed into a clear bag are: Gloves and other personal protective equipment that is NOT visibly contaminated with blood or body fluids, tissues, paper towels, package/wrapping materials, foam cups, paper cups, etc.

Click each tab below to learn more on the Do's and Don'ts of Non-Regulated Waste Handling Procedures.



Non-Regulated Medical Waste Handling Procedures


Click each tab below to learn more on the Do's and Don'ts of Non-Regulated Waste Handling Procedures.



Do's

- Always wear the appropriate PPE (gloves, goggles, mask, etc.)
- Always tie the bag using the "Rabbit Ear" Method (take two ends of the bag and tie the two ends together)
- Always keep the bag away from your body
- Always be aware of your surroundings

Click next to continue.



Non-Regulated Medical Waste Handling Procedures

Click each tab below to learn more on the Do's and Don'ts of Non-Regulated Waste Handling Procedures.



Don'ts

- NEVER pull trash without the appropriate PPE
- NEVER commingle your waste streams. When collecting regular trash there should only be clear bags on your container
- NEVER place trash bags on the floor. If you are collecting trash you should place the trash into a Grey/Beige Brute Container
- NEVER drape different varieties of bags over your collection containers; for example if you are collecting trash you should only have clear bags on your collection container

Click next to continue.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE™

Waste Containers-Color Code System

LVHN has designed a color coded waste management system to help us easily identify the proper waste receptacles and have consistent procedures for managing regulated medical waste and recycling efforts throughout our organization.

Click each color-coded waste receptacle below to learn more about what waste is collected in each.

Green Waste Receptacle	Blue Waste Receptacle	Grey/Beige Waste Receptacle	Red Waste Receptacle
			
Bottles and cans	Office paper and Protected Health Information	Regular Trash—patient rooms; this container should be a step-on trash can	All Regulated Medical Waste; this container should be a step-on trash container

➤ Click next to continue.

LVHN has designed a color coded waste management system to help us easily identify the proper waste receptacles and have consistent procedures for managing regulated medical waste and recycling efforts throughout our organization. Click each color-coded waste receptacle below to learn more about what waste is collected in each.



Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Recycling

Recycling is the processing of waste for reuse—the processing of used or waste material so that it can be used again, instead of being wasted.

At Lehigh Valley Health Network we recycle:

- Cardboard
- Office paper
- Protective Health Information (PHI)
- Light bulbs
- Bottles/Cans/Glass
- Batteries
- Computers, Monitors and TV's
- Metals
- Construction Materials



Click next to continue.

Recycling is the processing of waste for reuse or the processing of used or waste material so that it can be used again, instead of being wasted.

At Lehigh Valley Health Network we recycle Cardboard, Office paper, Protective Health Information or PHI, Light bulbs, Bottles/Cans/Glass, Batteries, Computers, Monitors and TV's, Metals, and Construction Materials.

Click each waste receptacle below to learn more about what waste is collected in each.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

Commingled Waste Receptacles

Click each waste receptacle below to learn more about what waste is collected in each.

Commingled Waste Receptacles
The following types of commingled waste gets recycled:



- Bottles
- Cans
soup, tuna, etc.
- Glass
Snapple, Fuze,
juice, etc.
- Plastic
all plastic numbers 1
through 7; you can find
this number on the bottom
of the container with a
triangle surrounding it

◆ Click next to continue.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

Commingled Waste Receptacles

Click each waste receptacle below to learn more about what waste is collected in each.


Commingled Waste Receptacles
Paper (all paper and protected health information), such as:



- Office paper*
- Post-it notes
- Stapled paper
- Envelopes*
- Junk mail
- Files
- Folders
- Notepads
- Glossy paper
- Newspapers
- Magazines
- Protected health information
- Calendars
- Brochures
- Spiral notebooks
- Clipped files

*all colors, inter-office and window envelopes


◆ Click next to continue.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE

Knowledge Check

What types of items go into the paper/PHI waste container? Click on the items below to select your answer(s).

Things that can go in the Paper/PHI Waste Container?



Notebooks ✓ Folders ✓ Mail ✓

Post-Its ✓ Any Item Saturated With Blood ✗ Files ✓

Click next to continue.

What types of items go into the paper/PHI waste container? Click on the items below to select your answer or answers.

 **Lehigh Valley Health Network**
A PASSION FOR BETTER MEDICINE™

Knowledge Check


What types of items go into the commingled waste container? Click on the items below to select your answer(s).

Things that can go in the Commingled Waste Container?

Item	Can go in container?
Metal Cans	Yes (Green checkmark)
Mail	No (Red X)
Aluminum Cans	Yes (Green checkmark)
Glass	Yes (Green checkmark)
Plastic	Yes (Green checkmark)
Paper Cup	No (Red X)

Click next to continue.

What types of items go into the commingled waste container? Click on the items below to select your answer or answers.



What is Your Role?

- You are responsible for managing your own waste.
- Everyone is responsible for separating waste and placing it into the proper container.
- All regulated medical waste, including sharps, is disposed of in its appropriate receptacles.
- Always recycle when possible!
- Properly segregating waste streams at the source point saves LVHN on waste disposal costs and ensures that we are compliant with all federal and state waste regulations.

If you do not have the required receptacles in your area, please call:

The Safety Department at	610-969-4487
or you may contact General Services at	(CC) 610-402-8566 (17 th) 610-969-2220 (muh) 484-884-2293

Click next to continue.

You are responsible for managing your own waste.

- Everyone is responsible for separating waste and placing it into the proper container.
- All regulated medical waste, including sharps is disposed of in its appropriate receptacles.
- Always recycle when possible!
- Properly segregating waste streams at the source point saves LVHN on waste disposal costs and ensures that we are compliant with all federal and state waste regulations.
- If you do not have the required receptacles in your area, please call the Safety Department at 610-969-4487 or you may contact General Services at (CC) 610-402-8566/ (17th) 610-969-2220/(muh) 484-884-2293.

Lehigh Valley Health Network
A PASSION FOR BETTER MEDICINE

Congratulations!

Congratulations! You have now completed Lehigh Valley Health Network's course on Waste Management.

You should now know how to:

- Recognize how to properly segregate solid waste into the proper waste streams
- Select the appropriate procedures and engineering controls when disposing of waste materials
- Identify the proper protocols to follow when autoclave technology is utilized

Please proceed to the Waste Management Quiz to test your knowledge. Answer the following questions as best as you can. In order to pass this course, you must earn at least 80% on the test.

Good luck!

TEST

Click next to continue.

Congratulations! You have now completed Lehigh Valley Health Network's course on Waste Management.

You should now know how to recognize how to properly segregate solid waste into the proper waste streams, select the appropriate procedures and engineering controls when disposing of waste materials, and identify the proper protocols to follow when autoclave technology is utilized.

Please proceed to the Waste Management Quiz to test your knowledge. Answer the following questions as best as you can. In order to pass this course, you must earn at least 80% on the test.

Good luck!