



## Disclosure

Advisory Board Independent Contractor - Medline

## Learning Objectives

Hospitals and clinics, like any other buildings require repair, maintenance, and new construction. However, in a clinical setting, we have to pay special attention on how to keep patients safe who are vulnerable to infection.

- ♦ Implement the proper infection control risk assessment (ICRA) process
- Know what activities require an infection control permit
- Understand the ICRA Matrix
- Know how to select the correct construction project type

# Activities Requiring an Infection Control Permit

- All inspections and repairs above ceiling in critical and sterile procedural areas.
- Activities that will generate dust
- Disruption of HVAC system(>4 Hours)
- Demolition or repair of walls, ceramic tile, ceiling tile and ceilings





## Activities Requiring an Infection Control Permit

- Removal of flooring, carpeting, windows, casework
- Water damage and or Mold Remediation
- Demolition, construction or repair of elevator shafts
- ♦ Any project that requires cutting of building materials or sanding (dry or wet) in patient care areas.

# Activities Exempt from the Permitting Process

- Non dust generating activities
- ♦ Removal of 1 ceiling tile per 50sqft only in noncritical areas. Only applies to work in noncritical areas







# Activities Exempt from the Permitting Process

- ♦ Medical office buildings, administrative spaces, 3<sup>rd</sup> party physician offices
- Painting & placement of wallcovering
- Electrical trim work where dust and debris can be captured quickly
- Minor plumbing and electrical repairs that do not generate dust

## Introduction to ICRA Matrix

Now that you have determined that the proposed work will require a permit, you will need to refer to the ICRA Matrix for requirements.

#### Step 1 – Type of Construction

- ❖ Identify the scope of work you will be performing Type A, B, C, or D
- ♦ Place this information on the Construction Activity section of the Permit (ICRA).

	Inspection and Non-Invasive Activities. Includes, but is not limited to:
	□ removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet
TYPE A	□ painting (but not sanding)
	□ wall covering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.
	Small scale, short duration activities which create minimal dust Includes, but is not limited to:
	□ installation of telephone and computer cabling
TYPE B	□ access to chase spaces
	□ cutting of walls or ceiling where dust migration can be controlled.
	Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies
	Includes, but is not limited to:
	□ sanding of walls for painting or wall covering
TVDE 0	□ removal of floor coverings, ceiling tiles and casework
I YPE C	□ new wall construction
	☐ minor duct work or electrical work above ceilings
	□ major cabling activities
	□ remediation / abatement
	□ any activity which cannot be completed within a single work shift
	Major demolition and construction projects include, but not limited to:
TYPE D	□ activities which require consecutive work shifts
	☐ requires heavy demolition or removal of a complete cabling system
	□ new construction.

Step 2 – Identify the Patient Risk Groups

- ♦ Identify the risk groups where the construction renovation will occur.
- Place this information on the infection control risk group of the Permit (ICRA).

LOW RISK	Medium Risk	High Risk	Hignest Risk
☐ Office	□ Cardiology	□ Emergency Room □	-□ Any area caring for
areas	□ Echocardiography	Labor & Delivery □ Laboratories	Immunocompromised
	☐ Endoscopy	(specimen)	patients
	☐ Nuclear Medicine	□ Newborn Nursery-/MCH	■ BMT/Organ —Transplant
	□ Physical Therapy	□ -Pharmacy	☐ Cardiac Cath/EP Lab
	□ Radiology/MRI	,	☐ Central Sterile Supply
	□ Respiratory	1	□ –Intensive Care Units
	Therapy	☐ Medical Surgical Unit	□ Negative pressure
	□ BHU	□ Cafeteria Food	isolation rooms
	☐ Cafeteria	Prep/Kitchen	☐ Oncology
			☐ Operating rooms including C-section rooms
			☐ Interventional Radiology

## IC Matrix - Class of Precautions: Construction Project by Patient Risk Construction Project Type

Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	1	II	II	III/IV
MEDIUM Risk Group	I	II	III	IV
HIGH Risk Group	1	II	III/IV	IV
HIGHEST Risk Group	II	III/IV	III/IV	IV

Step 3 – Construction Project by Patient Risk

ICRA Matrix

Once Step (1) and Step (2) have been assessed. Use the matrix below to identify the required infection control precautions. (Next slide will include an example).



### ICRA Matrix Example

Example: A flood occurs in the ICU caused by a domestic water line fracture.
 The walls are saturated, and it has been determined demolition is required.

Next Step: Review Types of Construction (Step1)

(Located on ICRA Template)

- ♦ Notes:
- A Flood has occurred in ICU and will require wall demolition and replacement; the work activity is expected to entail multiple shifts.
- The highlights represent items expected to be impacted.

#### Step One:

Using Table 1, identify the Construction Project Activity Type (A-D).

#### Table 1 - Construction Project Activity Type:

	Inspection and non-invasive activities.
	Includes but is not limited to:
Type A	<ul> <li>Removal of ceiling tile for visual inspection-limited to 1 tile per 50 square feet with limited exposure time.</li> </ul>
	<ul> <li>Limited building system maintenance (e.g., pneumatic tube station, HVAC system, fire suppression system, electrical and carpentry work to include painting without sanding) that does not create dust or debris.</li> </ul>
	Clean plumbing activity limited in nature.
	Small-scale, short duration activities that create minimal dust and debris.
	Includes but is not limited to:
Type B	<ul> <li>Work conducted above the ceiling (e.g., prolonged inspection or repair of firewalls and barriers, installation of conduit and/or cabling, and access to mechanical and/or electrical chase spaces).</li> </ul>
	<ul> <li>Fan shutdown/startup.</li> <li>Installation of electrical devices or new flooring that produces minimal dust and debris.</li> </ul>
	The removal of drywall where minimal dust and debris is created.
	Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and
	debris.
	Large-scale, longer duration activities that create a moderate amount of dust and debris.
	Includes but is not limited to:
	<ul> <li>Removal of preexisting floor covering, walls, case work or other building components.</li> </ul>
Type C	New drywall placement.
	Renovation work in a single room.
	Non existing cable pathway or invasive electrical work above ceilings.
	The removal of drywall where a moderate amount of dust and debris is created.
	Dry sanding where a moderate amount of dust and debris is created.
	Work creating significant vibration and/or noise.
	Any activity that cannot be completed in a single work shift.
	Major demolition and construction activities.
	Includes but is not limited to:
Type D	Removal or replacement of building system component(s).
	Removal/installation of drywall partitions.

Next Step: Identifying Patient Risk Groups (Step 2)

(Located on ICRA Template)

Notes: The incident occurred in ICU (highlighted)

Step 2:
Using the following table, *identify* the Patient Risk Groups that will be affected.
If more than one risk group will be affected, select the higher risk group:

	Medium Risk	High Risk	Highest Risk
☐ Office	□ Cardiology	□ Emergency Room □	□ Any area caring for
areas	□ Echocardiography	Labor & Delivery □ Laboratories	Immunocompromised
	☐ Endoscopy	(specimen)	patients
	☐ Nuclear Medicine		□ BMT/Organ Transplant
	□ Physical Therapy	☐ Pharmacy	☐ Cardiac Cath/EP Lab
	□ Radiology/MRI		☐ Central Sterile Supply
	□ Respiratory	Unit	☐ Intensive Care Units
	Therapy	☐ Medical Surgical Unit	☐ Negative pressure
	□ BHU	□ Cafeteria Food	isolation rooms
	☐ Cafeteria	Prep/Kitchen	□ Oncology
			☐ Operating rooms including C-section rooms
			☐ Interventional Radiology

Next Step - Class of precautions: Final requirements by patient risk and types of construction (Step 3)

(Located on ICRA Template)

Notes: We have determined this project meet the construction requirements listed as type C and occurs in highest patient risk group.

## IC Matrix - Class of Precautions: Construction Project by Patient Risk Construction Project Type

Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	I	II	II	III/IV
MEDIUM Risk Group	1	II	III	IV
HIGH Risk Group	I	II	III/IV	IV
HIGHEST Risk Group	II	III/IV	III/IV	IV

### ICRA Process Finalization

Now that you have determined the elements of the ICRA Matrix, here are the final steps:

Our previous example of the ICU flood indicated that this project was categorized as a Class III/IV containment. This type of project requires a signature by your infection preventionist.

(Note: Class I&II ICRA's will not require an IC signature. These only require the project managers signature).

Work with your infection preventionist to determine PPE Requirements for Class III/IV containments

### ICRA Process Finalization

- Selecting Personal Protective Equipment:
- Class III & IV Containments may consist of the following PPE requirements.

Shoe Covers

Head Covers

Bunny Suits

Tyvek Suits

Gloves

P-100

N-95



♦ Note: All personnel entering Class IV containments are required to wear shoe covers. Work with your IC preventionist to determine PPE Requirements.

## ICRA Process Finalization

#### ♦ Transportation of Debris in the Healthcare Environment:

- ♦ The project planning team should discuss the following expectation of debris removal from the worksite:
  - All transport receptacles should be covered when transporting debris through the healthcare environment.
  - Ensure trash bags are closed and gooseneck taped
  - Wet mops with disinfectant should be utilized to minimize dust dispersal
  - Provide a vacuum for the Anteroom





#### ICRA Process Finalization

- ♦ The picture on the right represents the finalized ICRA for our ICU flood example
- Post copy of signed ICRA on Containment and include additional signage that may be necessary.
- Note: Possible additional signage may include the following:
  - ILSM
  - Pardon our dust
  - Altered floor plans
  - Directional Signage

ATTACHMENT B: ICRA Permit Page: 1 of 1

Project # 123			actor Name: A		ractor				
	e: ICU Flood 3rd Floor				et Start Date: 3				
	ger: Facilities PM	Contact#: (xxx) xxx-			ated Completic		10/202	.2	
	tractor: ABC Const	Contact#:_(xxx) xxx			D Permit #: 1				
IOR: N/A		Contact#:_(xxx) xxx	-xxxx	IC Su	bcontractor Co				
	CONSTRUCTION AC				INFECTION		RISK (	FROUP	
	TYPE A: Inspection, no	n-invasive activity			GROUP 1: Lo	w Risk			
	TYPE B: Small scale, si moderate to h				GROUP 2: Me	edium Risk			
X		ates moderate to high levels of more than 1 work shift for completion	1		GROUP 3: Me	edium/High I	Risk		
		ion and construction activities secutive work shifts		x	GROUP 4: Hi	ghest Risk			
	Circle required containm	ent , all that apply			Circle needed	PPE, all that	apply		
	Containment cube; moFd	lified cube; zip flap;		1	Shoe covers; h	ead covers;	olyprop	ylene suits; Tyvek t	ype
	Visqueen barrier; Coropl	ast barrier; drywall barrier, anteroom			suites; gloves;	P100; N95			-
CLASS I Date: Initials:	construction operati	ethods to minimize raising dust from ons. a any ceiling tile displaced for visual i	nspection.	3. Cle	anup and disposal	in accordance	e with d	efined procedures.	
	Continue Class I rec	quirements		7. C	ontain construction	a waste befor	e transpo	ort in tightly covere	1
		ins to prevent air-borne dust from disp	ersing into	C	ontainers.		-		
CLASS II	atmosphere		_		Wet mop and/or vacuum with HEPA filtered vacuum work area. Vacuum Personnel if needed.      Place dust mat at entrance and exit of work area.				leaving
Date: Initials:		rfaces to control dust while cutting.							
Authors.	Seal unused doors v     Block off and seal a			10. R	10. Remove or isolate HVAC system in areas where work is b				
		approved disinfectant.		pe	performed.				
	1. Continue Class I &	II requirements		8 V	8. Vacuum work area with HEPA filtered vacuums including				
	Obtain infection co		Personnel, if needed.						
	Isolate HVAC system		<ol> <li>Wet mop with approved disinfectant</li> <li>Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.</li> </ol>						
CLASS III	contamination of th								
Date:		l barriers or implement control cube n	nethod					ort in tightly covere	4
Initials:	before construction 5. Maintain negative	oegms. air pressure within work site utilizing		Containers.  2. Cover transport receptacles or carts. Tape covering.					
	HEPA equipped air	filtration units.							
		onduits, and punctures appropriately.		Remove or isolate HVAC system in areas where work is being performed.					
	<ol> <li>Do not remove barr thoroughly cleaned.</li> </ol>	rriers from work area until complete project is			nioimed.	ned.			
				S. Al				uired to wear shoe	
		II & III requirements							
		ontrol permit before construction begi tem in area where work is being done		th	Do not remove barriers from work area until completed project is thoroughly cleaned.				
	contamination of		to prevent		cuum work area w			cuums.	
CLASS IV		al barriers or implement control cube	method	11. W	et mop with appro	et mop with approved disinfectant. move barrier materials carefully to minimize spreading of dirt and			
Date:3/8/22	before construction 5. Maintain negative	n begins. air pressure within work site utilizing	TIEDA	de	emove barrier mate bris associated wit	riais careiuii th constructio	y to min m.	imize spreading of o	urt and
Initials:AB	equipped air filtra		REPA	13. Co	ntain construction			rt in tightly covered	ı
	<ol><li>Seal holes, pipes,</li></ol>	conduits, and punctures appropria			ntainers.				
		m and require all personnel to wear PI			over transport recep			covering. where work is bein	z done
		covers, which are removed each time . If space permits use HEPA vacuum			move or isolate fi	vice system	ar areas	marce work is being	5 done.
		bris from personnel.	13 tucumii						
Class of Pre	cautions:	Patient Risk Group	TYPE	A	TYPE B	TYPE	С	TYPE D	
Construction	n Project	LOW Risk Group	1		II	II		III/IV	
by Patient Risk		MEDIUM Risk Group	i			III		IV	
		HIGH Risk Group	- i	-	<del></del>	III/r	v	iv	l
		HIGHEST Risk Group	<del>.</del>		III/IV	III/I		IV	
			- "		III/IV	111/1	v	IV	
	equirements: (If scope o								
	litions to this permit are not		Date:		Initials:	1	_		
Permit Request 1	-	ICRA Authorized By:		-	ermitted By:		Comme	ents:	
Date:	Title:	Date: Title:		Date: Title:					
Phone:	one: Phone: Ph								

## Work Practice Requirements for Class I,II,III & IV Containments

After going through the matrix to develop individual permits there will be steps which must be followed for each specific class.

#### Class I&II Project Classifications

- Execute work by methods to minimize raising dust
- ♦ Immediately replace any ceiling tile displaced for visual inspection
- Provide active means to prevent airborne dust from dispersing into atmosphere
- Water mist surfaces to control dust while cutting
- Seal unused doors with tape
- Place Tacky Mat at entrance
- Remove or isolate HVAC system in areas where work is being performed

## Work Practice Requirements for Class I,II,III & IV Containments

Class III & IV Project Classifications

- Isolate HVAC system in the area where work is being performed (Vinyl tape or coroplastic)
- Ensure all critical barriers i.e., sheetrock, plywood, visqueen, & coroplastic are in place to segregate and seal from all non construction related space.
- ♦ Maintain negative pressure within the worksite utilizing HEPA equipped filtration.

## Work Practice Requirements for Class I,II,III & IV Containments

- Ensure proper signage is posted. (May need to incorporate Safety Officer or Safety Technician for assistance)
- Ensure proper PPE is being worn as described on the Infection Control Risk Assessment (ICRA). This can be found on the right-hand side of the Permit
- ♦ Tacky mats and floor covering may be used as a form of dust compliance and or protection during construction renovation.

### Containment Construction

At this point the ICRA has been developed and the contractor is aware of all construction requirements, and the containment can be built





## Engineering / Designee Roles & Responsibilities

- Now that the containment has been built, Engineering / Designee plays an important role in the infection control process: Their duties will include the following:
- Conduct periodic visual inspections of all construction barriers and record your finding
- ♦ Immediately report any discrepancies or deficiencies to the points of contact listed on the ICRA (PM, IP, Safety)
- Authority to suspend project if there is an infection risk, loss of containment or noncompliance with IPC policies. Take immediate action to correct all deficiencies (i.e., loss of negative pressure, breach of containment, contractors not abiding by PPE requirements

## Visual Inspections

- Rounding on containments is conducted on a routine on a basis. The rounds are broken down into (3) categories. Below is what you should look for when conducting your site inspection.
- Barrier Configuration
  - Barrier is intact [tape secure, holding, breach, no damage]
  - Barrier should match the permit graphics
- ♦ Negative Pressure
  - Pressure reading should be negative
  - · Visual inward pull is appropriate
  - Flex duct connected securely and properly, free of damage
  - HEPA unit in functioning acceptable condition
- Ante-Room
  - Clean dust free and organized
  - Trash bag available in ante-room
  - Walk off mats available and properly maintained
- ♦ The actual round sheet used by to perform the visual inspections appears on the next slide

#### Visual Inspections Round Sheet (Class III&IV)

Rounds should be conducted periodically throughout the duration of the project.

	Identifier: S-FW-IC-0013 Date: 02/2022 P					Page	e: 1 of 1				
roject											
roject Ma	ınager										
ontracto	r										
ounds pe	erformed b	y:	Print name	e and	Initials						
			Permitting pr	ocess r	eview					Date/Time	Initial
rmit posted											
ntractors			Dust Buster tr	aining co	mpleted						
cation											
rrier configu	uration		Barrier is intac	t [tape s	ecure, holdin	g, breach, no	damage]	l			
			Barrier should	match t	he permit gra	phics					
gative pres	sure		Pressure read	ling shou	ıld be negativ	/e					
			Visual Inward	pull is ap	propriate						
			Flex duct con	nected s	ecurely and p	roperly, free	of damag	е			
			HEPA unit in f	unctionir	ng acceptable	econdition					
teroom			Clean, dust free and organized								
			Trash bag available in anteroom [removed after each work shift]								
			Walk off mats available and properly maintained								
orksite											
e inspection	1		Inspect all areas of the barrier – Is the area clean at the end of shift								
y unusual fi	ndings?		Document findings and provide details in the Notes section								
			Document Corrective Action to resolve issues in Notes section								
	Γ	Days	Initial		Days	Initial		Days	Initial		
		1			11			21			
		2			12			22			
		3			13			23			
		4			14			24			
		5			15			25			
		6			16			26			
		7			17			27			
		8			18			28			
		9			19			29			
		10			20			30/31			

Completion Acceptance (signed by PM, Engineering designee):

#### Depermit

- The ICU flood project is now complete. All the drywall has been freshly painted and repaired.
- Next Step: Infection prevention and or designee will need to visually review the containment for cleanliness.
- ♦ The contractor or EVS will provide a terminal clean prior to removal.

ATTACHMENT B: ICRA Permit Page: 1 of 1

Project # 123						ABC Contractor			
	e: ICU Flood 3 <sup>rd</sup> Floor		Project Start Date: 3/8/2022						
	iger: Facilities PM	Contact#;_(xxx) xxx-				on Date: 3/10/202	22		
	tractor: ABC Const	Contact#:_(xxx) xxx-			Permit #:				
IOR: N/A		Contact#:_(xxx) xxx	XXXXX	IC Sub		ntact#: ABC Co			
	CONSTRUCTION AC				INFECTION	CONTROL RISK	GROUP		
	TYPE A: Inspection, no	on-invasive activity			GROUP 1: Lo	ow Risk			
	TYPE B: Small scale, si moderate to h				GROUP 2: M	edium Risk			
X		rates moderate to high levels of more than 1 work shift for completion	n		GROUP 3: M	edium/High Risk			
		tion and construction activities asecutive work shifts		x	GROUP 4: Hi	ighest Risk			
	Circle required containm	ent , all that apply			Circle needed	PPE, all that apply			
	Containment cube; moFo	lified cube; zip flap;				nead covers; polyproj	pylene suits; Tyvek t	vpe	
		ast barrier; drywall barrier, anteroom			suites; gloves;		, -,, -		
CLASS I		ethods to minimize raising dust from		3. Clear	up and disposal	l in accordance with o	defined procedures		
Date:	construction operati			J. Clean	and disposal	accordance with	procedures.		
Initials:	2. Immediately replace	e any ceiling tile displaced for visual i	nspection.						
	Continue Class I re	quirements		7. Con	tain construction	n waste before transp	ort in tightly covered	d	
	1	ans to prevent air-borne dust from disp	ersing into	to containers.  8. Wet mop and/or vacuum with HEPA filtered vacuum befo					
CLASS II	atmosphere	-	_					leavin	
Date: Initials:		rfaces to control dust while cutting.			10. Remove or isolate HVAC system in areas where work is being				
mitiais.	Seal unused doors v    Block off and seal a								
		approved disinfectant.		performed.					
				Vacuum work area with HEPA filtered vacuums including					
	•				onnel, if neede		acuums including		
		ntrol permit before construction begin: em in area where work is being done to	Wet mop with approved disinfectant     Remove barrier materials carefully to minimize spreading of dirt						
CLASS III	contamination of th								
Date:	<ol> <li>Complete all critical</li> </ol>	al barriers or implement control cube n	and debris associated with construction.  11. Contain construction waste before transport in tightly covered						
Initials:	<ol> <li>before construction</li> <li>Maintain negative</li> </ol>		Contain construction waste before transport in tightly covered Containers.						
	HEPA equipped air	air pressure within work site utilizing	<ol> <li>Cover transport receptacles or carts. Tape covering.</li> </ol>						
		onduits, and punctures appropriately.	13. Remove or isolate HVAC system in areas where work is being						
		iers from work area until complete pro	performed.						
	thoroughly cleaned.  1. Continue Class I.	II & III requirements		S. All i	personnel enter	ing work site are re	anired to wear shoe	COTTO	
		ontrol permit before construction begi	ine			ers from work area u			
		tem in area where work is being done		thor	oughly cleaned.				
	contamination of	duct system.	-			with HEPA filtered va	acuums.		
CLASS IV		cal barriers or implement control cube	method	11. Wet	mop with appro	ved disinfectant. erials carefully to mir	nimiga enganding of	list on	
Date:3/8/22	before construction 5. Maintain negative	m begins. e air pressure within work site utilizing	upn.	debi	is associated wi	erials carefully to mir th construction.	annize spreading of o	art aft	
Initials:AB	5. Maintain negative		REPA	13. Con	tain construction	ı waste before transp	ort in tightly covered	l	
	<ol><li>Seal holes, pipes,</li></ol>	conduits, and punctures appropriat			ainers.				
		m and require all personnel to wear PI				ptacles or carts. Tape IVAC system in areas		a dom	
		e covers, which are removed each time e. If space permits use HEPA vacuum		15. Foem	ove or isolate H	VAC system in afeas	where work is being	5 done	
	excess dust and de	e. If space permits use HEPA vacuum ebris from personnel.	to vacuum						
Class of Pre		Patient Risk Group	TYPE	А	TYPE B	TYPE C	TYPE D		
Construction		LOW Risk Group	1		II	II	III/IV	1	
		MEDIUM Risk Group	i			iii	IV		
_,		HIGH Risk Group	<del>i</del>		<del>- ;;</del> -	III/IV	IV		
		HIGH KISK Group	<u> </u>	-+	III/IV	III/IV	IV		
A 44%: 4.5					III/IV	III/IV	IV		
	equirements: (If scope o		Date		Tarinial				
	litions to this permit are not		Date:	m . n.	Initials:	C			
Permit Request	•	ICRA Authorized By:			mitted By:	Comm	ents:		
Date:	Title:	Date: Title:	D:	ate:	Title:				

#### Depermit

- A final job walk should be performed by Infection Preventionist and or Engineering to ensure the following:
  - No penetrations
  - All debris has been removed
  - Ceiling tiles reinstalled
  - Plumbing fixtures tested for leaks (toilets, drains, faucets)
  - All surfaces are dust free and disinfected
- Once terminal clean has been performed and visually inspected, Infection Preventionist and or Designee can sign off the permit. These documents will need to be archived.
- ♦ A record of all approved ICRA's will be maintained for a period of 3 years

ATTACHMENT B: ICRA Permit Page: 1 of 1 Project # 1231 Contractor Name: ABC Contractor Project Name: ICU Flood 3rd Floor Project Start Date: 3/8/2022 Project Manager: Facilities PM Contact#: (xxx) xxx-xxxx Estimated Completion Date: 3/10/2022 OSHPD Permit #: N/A General Contractor: ABC Const Contact#:\_(xxx) xxx-xxxx IC Subcontractor Contact#: ABC Const IOR: N/A Contact#: (xxx) xxx-xxxx CONSTRUCTION ACTIVITY INFECTION CONTROL RISK GROUP TYPE A: Inspection, non-invasive activity GROUP 1: Low Risk TYPE B: Small scale, short duration, GROUP 2: Medium Risk moderate to high levels TYPE C: Activity generates moderate to high levels of  $\mathbf{x}$ GROUP 3: Medium/High Risk dust, requires more than 1 work shift for completion TYPE D: Major demolition and construction activities GROUP 4: Highest Risk Requiring consecutive work shifts Circle required containment, all that apply Circle needed PPE, all that apply Containment cube; moFdified cube; zip flap; Shoe covers; head covers; polypropylene suits; Tyvek type suites; gloves; P100; N95 Visqueen barrier: Coroplast barrier: drywall barrier, anteroom CLASSI Execute work by methods to minimize raising dust from 3. Cleanup and disposal in accordance with defined procedures. Date: construction operations. Initials: Immediately replace any ceiling tile displaced for visual inspection Continue Class I requirements Contain construction waste before transport in tightly covered containers. 2. Provides active means to prevent air-borne dust from dispersing into CLASS II Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. Vacuum Personnel if needed. Date: Water mist work surfaces to control dust while cutting. Place dust mat at entrance and exit of work area. Initials: Seal unused doors with vinyl tape. 10. Remove or isolate HVAC system in areas where work is being Block off and seal air vents. Wipe surfaces with approved disinfectant. Continue Class I & II requirements Vacuum work area with HEPA filtered vacuums including Personnel, if needed. Obtain infection control permit before construction begins. Wet mop with approved disinfectant Isolate HVAC system in area where work is being done to prevent Remove barrier materials carefully to minimize spreading of dirt contamination of the duct system. CLASS III and debris associated with construction. Complete all critical barriers or implement control cube method Date: Contain construction waste before transport in tightly covered before construction begins. Initials: Containers. Maintain negative air pressure within work site utilizing Cover transport receptacles or carts. Tape covering. HEPA equipped air filtration units. Remove or isolate HVAC system in areas where work is being Seal holes, pipes, conduits, and punctures appropriately. performed. Do not remove barriers from work area until complete project is thoroughly cleaned. Continue Class I, II & III requirements All personnel entering work site are required to wear shoe covers Do not remove barriers from work area until completed project is Obtain infection control permit before construction begins. thoroughly cleaned. Isolate HVAC system in area where work is being done to prevent Vacuum work area with HEPA filtered vacuums. contamination of duct system. 11. Wet mop with approved disinfectant. Complete all critical barriers or implement control cube method CLASS IV 12. Remove barrier materials carefully to minimize spreading of dirt and before construction begins. Date:3/8/22 debris associated with construction. Maintain negative air pressure within work site utilizing HEPA Initials:AB 13. Contain construction waste before transport in tightly covered equipped air filtration units. Seal holes, pipes, conduits, and punctures appropriately. 14. Cover transport receptacles or carts. Tape covering. Construct anteroom and require all personnel to wear PPE -15. Remove or isolate HVAC system in areas where work is being done. coveralls and shoe covers, which are removed each time they leave the work site. If space permits use HEPA vacuum to vacuum

	excess dust and de	ebris from personnel.						
Class of Pred	autions:	Patient Risk Group	TYPE	A	TYPE B	TYPE C	TYPE D	
Construction Project		LOW Risk Group I			II	II	III/IV	
by Patient R	isk	MEDIUM Risk Group	1		=	==	IV	
		HIGH Risk Group	- 1		=	III/IV	IV	
		HIGHEST Risk Group	II		III/IV	III/IV	IV	
A 11'4' 1 D		>						

	marritisk droup		••	,					
	HIGHEST Risk Group	II	III/IV	III/IV	IV				
Additional Requirements: (If scope of project changes IP)									
Exceptions /Additions to this permit are	noted by attached memoranda:	Date:	Initials:						
Permit Request By:	ICRA Authorized By:	ICRA	De-permitted By:	Comm	ents:				
Date: Title:	Date: Title:	Date:	Title:						
Phone:	Phone:	Phone							

## YOUR TURN

Which one of these activities would require an ICRA?

- A) Removal of a ceiling tile to inspect an HVAC motor in a non-critical area
- B) Painting a wall
- C) Non dust generating removal of wallpaper
- D) Removal of carpeting

- ♦ Which one of these activities would require an ICRA?
- A) Removal of a ceiling tile to inspect an HVAC motor in a non-critical area
- B) Painting a wall
- C) Non dust generating removal of wallpaper
- D) Removal of carpeting

♦ True or False

♦ Inspection above the ceiling in an O.R. will always require a permit

A) True

B) False

- \* Which of the following is not an acceptable condition observed during the containment visual inspection rounding?
- A) Containment visqueen is pushing outward slightly
- B) Walk off mats have been recently changed
- C) Trash bag is present in ante-room
- D) HEPA unit flex hose is intact and functional

- Which of the following is not a component of the ICRA Matrix development?
- A) Type of construction
- B) Area of the hospital where work is being performed
- C) Contractor performing the work
- D) Duration of the project

How often should rounding be conducted on containments?

- A) Twice a day
- B) Daily
- c) Periodically
- D) Never

♦ Engineering has the ability to suspend work?

- A) True
- B) False

♦ The ICRA's should be retained for \_\_\_\_\_?

- A) The duration of the project
- B) 3 Years
- c) Calendar Year
- D) Fiscal Year

♦ When should the designee sign off the ICRA to authorize containment removal?

- A) Visually Inspected by Designee & Terminally Cleaned
- B) Terminally Cleaned
- c) Construction Cleaned
- D) After The Work is Complete

♦ True of False?

♦ An ICRA is required if the HVAC system is shut down for more than 4 hours?

## References

Infection Control Risk Assessment 2.0 (ICRA 2.0) | ASHE

ASHE publishes revised infection control risk assessment guide | Health Facilities Management (hfmmagazine.com)

Questions?