

## Centennial's Continuum of Care (3 C's) Subcontractor Orientation Program V8.0

May 7, 2021

# **3 C'S COURSE OBJECTIVE**



Unit 1 – Safety

Unit 2 – Infection Control Infection Control Risk Assessment (ICRA)

Unit 3 – Interim/Alternative Life Safety Measures (ILSM/ALSM)

Unit 4 – Policies and Procedures





## UNIT 1 – SAFETY



- ✤4 Leading Causes of Fatalities
- Safety Basics
- ✤ Health Hazards
- Safety Summary



# UNIT 1 – SAFETY Four Leading Causes of Fatalities



In the Construction Industry

1. Falls from or into





2. Struck by

3. Caught in/between 4. Electrocution







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# UNIT 1 – SAFETY **Safety Basics**

## **Personnel Protective Equipment**

- ✓ Hardhats
  - Life span of hardhats/suspension
  - Bill facing forward
  - Only authorized attachments and liners
- Safety glasses (100% eye protection)
   ANSI Z87.1 marking

  - Prescription safety glasses with side shields
- ✓ Gloves (100% hand protection)
  - Minimum ANSI Cut & Abrasion Level 2
  - Selected for potential hazard
- ✓ Masks / Face Coverings as required
- ✓ Leather work shoes only





# UNIT 1 – SAFETY Safety Basics

## Fire Protection

- ✓ A subcontractor owned minimum 5 lb. ABC fire extinguisher is required at all worksites.
- ✓ Fire extinguishers inspected both annually and monthly must be tagged.
- ✓ Fire extinguisher(s) must be within 75' of work and within 50' of flammable storage.
- ✓ Mounted with bottom ≥ 4" above ground and top ≤ 5' above ground.
- P.A.S.S. technique (pull, aim, squeeze, sweep)





# UNIT 1 – SAFETY Safety Basics

## Hazard Communications

- Hazardous Chemical/Material Inventory maintained on site
- Hard copies of Safety Data Sheets
   (SDS's) for all materials on site
- All containers must be appropriately labeled
- All exposed and affected personnel are provided with training on hazardous materials in their work areas





# UNIT 1 – SAFETY Health Hazards on Site



## Asbestos



**Biohazards** 







Chemicals





Please note these are not all inclusive, there can be more health hazards encountered on site.

# UNIT 1 – SAFETY Health Hazards on Site



## Radioactive



## Silica



## Polychlorinated Biphenyls Mold







Please note these are not all inclusive, there can be more health hazards encountered on site.

# UNIT 1 – SAFETY Health Hazards on Site

## Health Hazards on Site

- Be aware of possible health hazards in your work area
- ✓ If identified or suspected, <u>do not</u> <u>disturb</u> and notify Centennial Representative





# UNIT 1 – SAFETY Safety Summary



- ➤ Safety is the <u>#1</u> Priority.
- Understand you are in the healthcare environment, patients and staff are the ultimate concern during all activities.
- You are responsible for the safety of yourself, fellow craft personnel, healthcare patients, and facility staff.
- SAFE is the only way we do business.



## **3 C'S COURSE OBJECTIVE**



Unit 1 – Safety

## Unit 2 – Infection Control Infection Control Risk Assessment (ICRA)

Unit 3 – Interim/Alternative Life Safety Measures (ILSM/ALSM)

Unit 4 – Policies and Procedures







- A process that focuses on <u>reducing risk from</u> <u>infection throughout</u> facility planning, design, and <u>construction (including renovation) activities</u>
- Prepared by owner's multidisciplinary team
- Considers:
  - ✓ The environment
  - ✓ Infectious agents
  - ✓ Human factors
  - ✓ The impact of the proposed project
- Identifies Infection Control Risk Mitigation Recommendations (ICRMR's) – requirements for construction/renovation

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Supe	rviso		L VER	Ter		
YES	NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP	
		TYPE A: Inspection, non-invasive activity		+	GROUP 1: Low Risk	
		moderate to high levels	<u> </u>		GROOP 2. Medium Risk	
		TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk	
		TYPE D: Major duration and construction activities Requiring consecutive work shifts			GROUP 4: Highest Risk	
CLAS	SS I	<ol> <li>Execute work by methods to minimize raising dust from construction operations.</li> <li>Immediately replace any ceiling tile displaced for visual inspection.</li> </ol>	3.	Minor E	Demolition for Remodeling	
CLAS	SS II	1. Provides active means to prevent air-borne dust from	6. Contain construction waste before transport in tight			
		dispersing into atmosphere Water mist work surfaces to control dust while cutting	covered containers. 7 Wet mon and/or vacuum with HEPA filtered va			
		<ol> <li>Seal unused doors with duct tape.</li> </ol>	<i>'</i> .	before leaving work area. Place dust mat at entrance and exit of work area. Remove or isolate HVAC system in areas where work		
		4. Block off and scal air vents.	8.			
		5. wipe surfaces with disinfectant.	9.	is being	performed.	
		1. Obtain infection control permit before construction begins.	6.	Vacuum	work with HEPA filtered vacuums.	
CLAS	SS III	<ol> <li>Isolate HVAC system in area where work is being done to 7.</li> </ol>		7. Wet mop with disinfectant		
		<ol> <li>Complete all critical barriers or implement control cube method before construction begins.</li> </ol>	8.	spreadin	g of dirt and debris associated with tion.	
D	ata	Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.     Do not remove barriers from work area until complete project is thoroughly eleaned by Env. Services Dept.		Contain construction waste before transport in		
	ate			Cover tr	ansport receptacles or carts. Tape covering.	
Ini	tial			Remove or isolate HVAC system in areas where work is being performed/		
Class	IV	<ol> <li>Obtain infection control permit before construction begins.</li> <li>Isolate HVAC system in area where work is being done to</li> </ol>	7.	All pers	onnel entering work site are required to wear	
		prevent contamination of duct system.	8.	Do not r	remove barriers from work area until completed	
		<ol> <li>Complete all critical barriers or implement control cube method before construction begins</li> </ol>		project i	is thoroughly cleaned by the Environmental Dept	
D	ate	<ol> <li>Maintain negative air pressure within work site utilizing</li> </ol>	9.	Vacuum	work area with HEPA filtered vacuums.	
Ini	tial	HEPA equipped air filtration units.	10.	Wet mo	p with disinfectant.	
		<ol> <li>Sear notes, pipes, conduits, and punctures appropriately.</li> <li>Construct anteroom and require all personnel to pass</li> </ol>	11.	spreadin	ng of dirt and debris associated with	
		through this room so they can be vacuumed using a HEPA		construc	ction.	
		vacuum cleaner before leaving work site or they can wear cleth or paper coveralls that are removed each time they	12.	Contain	construction waste before transport in tightly	
		leave the work site.	13.	Cover tr	ansport receptacles or carts. Tape covering.	
			14.	Remove being de	or isolate HVAC system in areas where is one.	
Additio	onal Rec	uirements:				
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**Type of Construction** – determined by the amount of dust that is generated, the duration of the activity, and the involvement with HVAC systems

- Type A Inspection and Non-Invasive Activities
  - o No dust
  - Painting and wallcovering (no sanding)
  - o Minor electrical trim and plumbing

## > Type B – Small scale, short duration

- Minimal dust
- Cutting of walls or ceiling where dust migration can be controlled

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Supe	rviso	r:		VEC	1 er	DIFFECTION CONTROL BIEK CROUD		
YES	NO	0		YES	0M	CROUB Is Low Bish		
	-	TY	PE A: Inspection, non-invasive activity	-	+	GROUP 1: Low Risk		
		11	moderate to high levels	-	_	GROOP 2. Median Risk		
		TY	PE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk		
		TY	PE D: Major duration and construction activities			GROUP 4: Highest Risk		
CLAS	SS I	1. 2.	Execute work by methods to minimize raising dust from construction operations. Immediately replace any ceiling tile displaced for visual inspection.	3.	Minor I	Demolition for Remodeling		
CLAS	SS II	1.	Provides active means to prevent air-borne dust from	6.	Contain	n construction waste before transport in tightly		
		2	dispersing into atmosphere Water mist work surfaces to control dust while cutting.	7.	Covered Wet me	d containers. op and/or vacuum with HEPA filtered vacuum		
		3.	Seal unused doors with duct tape.		<ol> <li>before leaving work area.</li> <li>Place dust mat at entrance and exit of work area.</li> <li>Remove or isolate HVAC system in areas where wo</li> </ol>			
		4.	Block off and seal air vents. Wine surfaces with disinfectant.	8.				
		-	in the summer of the second seco	<u></u>	is being	g performed.		
CI 100 III		1.	Obtain infection control permit before construction begins.	6.	Vacuun	n work with HEPA filtered vacuums.		
CLAS	5 111	Isolate HYAC system in area where work is being done to     prevent contamination of the duct system.     Somplete all critical barriers or implement control cube     method before construction begins.			<ol> <li>Wet mop with disinfectant</li> <li>Remove barrier materials carefully to minimize</li> </ol>			
					spreadin	ng of dirt and debris associated with action.		
P	at a	<ol> <li>Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> <li>Do not remove barriers from work area until complete project is thoroughly cleaned by Env. Services Dept.</li> </ol>		9.	Contain	n construction waste before transport in		
Di	ate .			10.	<ol> <li>Cover transport receptacles or carts. Tape covering.</li> </ol>			
Ini	tial			11.	<ol> <li>Remove or isolate HVAC system in areas where wor is being performed/</li> </ol>			
Class	IV	1.	Obtain infection control permit before construction begins. Isolate HVAC system in area where work is being done to	7.	All pers	sonnel entering work site are required to wear		
			prevent contamination of duct system.	8.	Do not	remove barriers from work area until complet		
		3.	Complete all critical barriers or implement control cube method before construction begins.		project Service	is thoroughly cleaned by the Environmental Dept.		
D	ate	4.	Maintain negative air pressure within work site utilizing	9.	Vacuun	n work area with HEPA filtered vacuums.		
Ini	tial	5	HEPA equipped air filtration units. Seal holes, pipes, conduits, and punctures appropriately.	10.	Wet mo Remove	op with disinfectant. e barrier materials carefully to minimize		
		6.	Construct anteroom and require all personnel to pass		spreadin	ng of dirt and debris associated with		
			through this room so they can be vacuumed using a HEPA	12	Contain	a construction waste before transport in tightly		
			cloth or paper coveralls that are removed each time they	14.	covered	d containers.		
			leave the work site.	13.	Cover to	transport receptacles or carts. Tape covering.		
				14.	being de	one.		
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**Type of Construction** – determined by the amount of dust that is generated, the duration of the activity, and the involvement with HVAC systems

- Type C Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies
  - o Sanding walls
  - New wall construction
  - Minor ductwork or electrical work above ceiling
  - Any activity requiring more than a single work shift
- Type D Major demolition and construction projects

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VES	NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP		
120	110	TVPF A: Inspection, non-invasive activity	100	1.0	GROUP 1: Low Risk		
		TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk		
		TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk		
		TYPE D: Major duration and construction activities			GROUP 4: Highest Risk		
CLAS	S I	Execute work by methods to minimize raising dust from construction operations.     Immediately replace any ceiling tile displaced for visual inspection.	3.	Minor D	Demolition for Remodeling		
CLAS	SΠ	1. Provides active means to prevent air-borne dust from	6.	Contain	construction waste before transport in tightly		
		<ol> <li>dispersing into atmosphere</li> <li>Water mist work surfaces to control dust while cutting.</li> </ol>	7.	Wet more	p and/or vacuum with HEPA filtered vacuum		
		<ol> <li>Seal unused doors with duct tape.</li> </ol>		before le	eaving work area.		
		<ol> <li>Block off and scal air vents.</li> <li>Wine surfaces with disinfectant.</li> </ol>		lace dust mat at entrance and exit of work area. Remove or isolate HVAC system in areas where work			
		5. Hipe autaces with disinfectant.	~	is being performed.			
		1. Obtain infection control permit before construction begins.	6.	Vacuum	work with HEPA filtered vacuums.		
CLAS	5 111	<ol> <li>Isolate HVAC system in area where work is being done to prevent contamination of the duct system.</li> </ol>	7.	<ol> <li>Wet mop with disinfectant</li> <li>Remove barrier materials carefully to minimize</li> </ol>			
		<ol> <li>Complete all critical barriers or implement control cube method before construction begins.</li> </ol>	a.	spreadin	ig of dirt and debris associated with tion.		
Da	te	<ol> <li>Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> </ol>	<ol> <li>Contain construction waste before transport in tightly covered containers.</li> </ol>				
Init	Int		10.	10. Cover transport receptacles or carts. Tape covering			
Inte	aa	<ol> <li>Do not remove barriers from work area until complete project is thoroughly cleaned by Env. Services Dept.</li> </ol>		Remove or isolate HVAC system in areas where work is being performed/			
Class	IV	<ol> <li>Obtain infection control permit before construction begins.</li> <li>Isolate HVAC system in area where work is being done to</li> </ol>	7.	All perso shoe cov	onnel entering work site are required to wear		
		<ol> <li>prevent contamination of duct system.</li> <li>Complete all critical barriers or implement control cube mathed before construction barriers</li> </ol>	8.	Do not n project is	emove barriers from work area until comple s thoroughly cleaned by the Environmental		
Da	te	<ol> <li>Maintain negative air pressure within work site utilizing</li> </ol>	9.	Vacuum	work area with HEPA filtered vacuums.		
Init	ial	HEPA equipped air filtration units.	10.	Wet mog	p with disinfectant.		
		<ol> <li>Seal notes, pipes, conduits, and punctures appropriately.</li> <li>Construct anteroom and require all personnel to pass</li> </ol>	11.	spreadin	or dirt and debris associated with		
		through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear	12.	Contain	construction waste before transport in tight		
		cloth or paper coveralls that are removed each time they		covered	containers.		
		leave the work site.	13.	Cover tra Remove	ansport receptacles or carts. Tape covering.		
	_		14.	being do	one.		
Additio	nal Req	uirements:					
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Date			Date:				



## **Definition of the Patient Risk Groups**

GROUP 1 – LOW	GROUP 2 – MEDIUM	group 3 – high	group 4 – highest
Office Areas	Cardiology	Critical Care Units	Immunocompromised Patient Areas
	Echocardiography	Emergency Rooms	Burn Units
	Endoscopy	Labor & Delivery	Cardiac Cath Labs
	Nuclear Medicine	Laboratories	Central Sterile Supply
	Physical Therapy	Newborn Nurseries	Intensive Care Units
	Radiology/MRI	Outpatient Surgeries	Medical Units
	Respiratory Therapy	Pediatrics	Negative Pressure Isolation Rooms
		Pharmacies	Oncology
		Post Anesthesia Care Units	Operating Rooms
		Surgical Units	

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Supe	rviso			Tel	ephone:		
YES	NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP		
		TYPE A: Inspection, non-invasive activity		-	GROUP 1: Low Risk		
		TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk		
		TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk		
		TYPE D: Major duration and construction activities Requiring consecutive work shifts			GROUP 4: Highest Risk		
CLAS	IS I	<ol> <li>Execute work by methods to minimize raising dust from construction operations.</li> <li>Immediately replace any ceiling tile displaced for visual inspection.</li> </ol>	3.	Minor I	Demolition for Remodeling		
CLAS	SII	1. Provides active means to prevent air-borne dust from	6. Contain construction waste before transport in tightly				
		dispersing into atmosphere Water mist work surfaces to control dust while outling	7	covered containers. Wet mop and/or vacuum with HEPA filtered vacuum			
		<ol> <li>Seal unused doors with duct tape.</li> </ol>		before l	caving work area.		
		<ol><li>Block off and scal air vents.</li></ol>	8.	Place da	ast mat at entrance and exit of work area.		
		<ol><li>Wipe surfaces with disinfectant.</li></ol>	9.	Remove is being	e or isolate HVAC system in areas where work performed.		
		1. Obtain infection control permit before construction begins.	6.	Vacuum	n work with HEPA filtered vacuums.		
CLAS	S III	2. Isolate HVAC system in area where work is being done to	7.	Wet mo	p with disinfectant		
		prevent contamination of the duct system.	8.	Remove	e barrier materials carefully to minimize		
		<ol> <li>Complete all critical barriers or implement control cube method before construction begins.</li> </ol>		construe	ction.		
			9.	Contain	construction waste before transport in		
D	ite	<ol> <li>Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> </ol>		tightly covered containers. 0. Cover transport receptacles or carts. Tape covering.			
Ini	tial	<ol> <li>Do not remove barriers from work area until complete project is thoroughly cleaned by Env. Services Dept.</li> </ol>	11.	Remove is being	e or isolate HVAC system in areas where work performed/		
~		1. Obtain infection control permit before construction begins.	7.	All pers	onnel entering work site are required to wear		
Class	IV	<ol> <li>Isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> </ol>	8	shoe co	vers remove barriers from work area until complete		
		<ol> <li>Complete all critical barriers or implement control cube</li> </ol>	0.	project i	is thoroughly cleaned by the Environmental		
		method before construction begins.		Service	Dept.		
D	ite	<ol> <li>Maintain negative air pressure within work site utilizing UEPA aguinged air filtration units</li> </ol>	9.	Wat mo	n work area with HEPA filtered vacuums.		
Ini	tial	<ol> <li>Scal holes, pipes, conduits, and punctures appropriately.</li> </ol>	11.	Remove	barrier materials carefully to minimize		
		<ol><li>Construct anteroom and require all personnel to pass</li></ol>		spreadin	ng of dirt and debris associated with		
		through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear	12	Contain	ction.		
		cloth or paper coveralls that are removed each time they		covered	containers.		
		leave the work site.	13.	Cover to	ransport receptacles or carts. Tape covering.		
			14.	Remove being de	e or isolate HVAC system in areas where is one.		
Additio	onal Rec	uirements:					
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Date	Initials		Date Initials are noted by attached memoranda				
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Date:			Date:				

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## Class of Precautions: Construction Project by Patient Risk

Construction Project Type

Patient Risk Group	Туре А	Туре В	Туре С	Type D
LOW Risk Group	I	П	П	III/IV
MEDIUM Risk Group	I	II	II	IV
HIGH Risk Group	I	П	III/IV	IV
HIGHEST Risk Group	II	III/IV	III/IV	IV

	Infection Control Constru	uctio	n Pern	nit		
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Location	of Construction:		Proje	ct Start Date:		
Project C	oordinator:		Estimated Duration:			
Contracto	or Performing Work		Permi	it Expiration Date:		
Supervise	Supervisor:			hone:		
YES NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP		
	TYPE A: Inspection, non-invasive activity			GROUP 1: Low Risk		
	TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk		
	TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk		
	TYPE D: Major duration and construction activities			GROUP 4: Highest Risk		
CLASS I	Execute work by methods to minimize raising dust from construction operations.     Immediately replace any ceiling tile displaced for visual inspection.	3.	Minor Den	solition for Remodeling		
CLASS II	Inspectation     The set of	6. 7. 8. 9.	Contain con covered con Wet mop at before leav Place dust to Remove or is being per	nstruction waste before transport in tightly ntainers. nd/or vacuum with HEPA filtered vacuum ing work area. mat at entrance and exit of work area. isolate HVAC system in areas where work fromed.		
CLASS III Date Initial	Obtain infection control permit before construction begins.     Isolate HVAC system in area where work is being done to prevent contamination of the duct system.     Complete all critical barriers or implement control cube method before construction begins.     Maintain negative air pressure within work site utilizing     HEPA equipped air filtration units.     Do not remove barriers from work area until complete	6. 7. 8. 9. 10. 11.	Vacuum we Wet mop w Remove ba spreading o constructio Contain col ightly cove Cover trans Remove or	ork with HEPA filtered vacuums. ith disinfactant rior materials carefully to minimize of dirt and debris associated with n.e. nstruction waste before transport in red containers. sport receptacles or earts. Tape covering. isolate HVAC system in areas where work		
Class IV	project is thoroughly cleaned by Env. Services Dept. 1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of due system. 3. Complete all critical barriers or implement control cube	7. 8.	is being per All personr shoe covers Do not rem project is th	rformed/ sel entering work site are required to wear so be barriers from work area until complete boroughly cleaned by the Environmental		
Date	4. Maintain negative air pressure within work site utilizing	9.	Vacuum we	ork area with HEPA filtered vacuums.		
Initial	HEPA equipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum clearer before baving works ike or they can wear cloth or paper coveralls that are removed each time they leave the work site.	10. 11. 12. 13. 14.	Wet mop w Remove ba spreading o constructio Contain con covered con Cover trans Remove or being done.	with disinflectant. micr materials carefully to minimize of dirt and debris associated with a. astruction waste before transport in tightly ntainers. port receptacles or carts. Tape covering. isolate HVAC system in areas where is		
Additional Ro	quirements:	1		Excentions/Additions to this nermit		
Date Initials		Date	Initials	are noted by attached memoranda		
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# UNIT 2 – Infection Control ICRA Matrix – Class IV Guidelines (ICRMR's)



#### **During Construction**

- 1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.
- Complete all critical barriers (sheetrock, Correx, modular system, or fire-retardant plastic) to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum) before construction begins.
- 3. Maintain a minimum -0.02 negative air pressure within work site utilizing HEPA equipped air filtration units.
- 4. Seal perimeter holes, pipes, conduits, and punctures appropriately, using smoke/fire stop material for rated separations.
- Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave work site.
- 6. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.

- Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Dept.
- 2. Vacuum work area with HEPA filtered vacuums.
- 3. Wet mop area with cleaner/disinfectant.
- 4. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction.
- 5. Contain construction waste before transport in tightly covered containers.
- 6. Cover transport receptacles or carts. Tape covering unless solid lid.
- 7. Upon completion, restore HVAC system where work was performed.

	Infection Control Constru	uctio	n Pei	rmit		
				Permit No:		
Location	of Construction:		Proj	ject Start Date:		
Project (	Coordinator:		Estimated Duration:			
Contract	or Performing Work		Per	mit Expiration Date:		
Supervis	sor:		Tele	ephone:		
YES NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP		
	TYPE A: Inspection, non-invasive activity			GROUP 1: Low Risk		
	TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk		
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CLASS I	Execute work by methods to minimize raising dust from construction operations.     Immediately replace any ceiling tile displaced for visual inspection.	3.	Minor D	emolition for Remodeling		
CLASS II	<ol> <li>Provides active means to prevent air-borne dust from dispersing into atmosphere</li> <li>Water mist work surfaces to control dust while cutting.</li> <li>Seal unused doors with duct tape.</li> </ol>	6. 7.	Contain covered Wet mon before le	Contain construction waste before transport in tightly overed containers. Vet mop and/or vacuum with HEPA filtered vacuum sefore leaving work area.		
	<ol> <li>Block off and seal air vents.</li> <li>Wipe surfaces with disinfectant.</li> </ol>	8. 9.	Place du Remove is being	st mat at entrance and exit of work area. or isolate HVAC system in areas where work performed.		
CLASS III	<ol> <li>Obtain infection control permit before construction begins.</li> <li>Isolate HVAC system in area where work is being done to prevent contamination of the duet system.</li> <li>Complete all critical barriers or implement control cube method before construction begins.</li> </ol>	<ol> <li>Vacuum v</li> <li>Wet mop</li> <li>Remove b spreading constructi</li> <li>Contain c</li> </ol>		work with HEPA filtered vacuums. p with disinfectant barrier materials carefully to minimize g of dirt and debris associated with tion. construction waste before transport in		
Date	<ol> <li>Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> <li>Do not remove barriers from work area until complete</li> </ol>		tightly covered containers. Cover transport receptacles or carts. Tape covering. Remove or isolate HVAC system in areas where work			
Class IV	I. Obtain infection control permit before construction begins.     Solution the the second seco	7. 8.	All perso shoe cov Do not p	performed/ onnel entering work site are required to wear vers emove barriers from work area until completed a thoroughly cleaned by the Environmental		
Date	method before construction begins.	9	Service I	Dept.		
Initial	<ul> <li>HEPA captions of the filtration units.</li> <li>Scal holes, pipes, conduits, and punctures appropriately.</li> <li>Construct unitcom and equire all personnel to pass through this nom so they can be vacuumed using a HEPA vacuum cleaner before barving works itor othey can wear cloth or paper coveralls that are removed each time they leave the work site.</li> </ul>	10. 11. 12. 13. 14.	Wet moj Remove spreadin construc Contain covered Cover tra Remove being do	p with disinfectant. burier material carefully to minimize g of dirt and debris associated with tion. The state of the state of the state of the state containers. Anyot receptacles or carts. Tape covering. or isolate IVAC system in areas where is no.		
Additional F	equirements:					
Date Initial	5	Date	Initials	Exceptions/Additions to this permit are noted by attached memoranda		
Permit Requ	est By:	Permi	it Author	rized By:		
Date:		Date:				

## UNIT 2 – Infection Control ICRA Matrix – Class III Guidelines (ICRMR's)



Page 19

#### **During Construction**

- 1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.
- Complete all critical barriers (sheetrock, Correx, modular system, or fire-retardant plastic) to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum) before construction begins.
- 3. Maintain a minimum of -0.02 negative air pressure within work site utilizing HEPA equipped air filtration units.
- 4. Seal perimeter holes, pipes, conduits, and punctures appropriately, using smoke/fire stop material for rated separations.

- Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Dept.
- 2. Vacuum work area with HEPA filtered vacuums.
- 3. Wet mop area with cleaner/disinfectant.
- 4. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction.
- 5. Contain construction waste before transport in tightly covered containers.
- 6. Cover transport receptacles or carts. Tape covering unless solid lid.
- 7. Upon completion, restore HVAC system where work was performed.

Image: Interview of the system of t		Infection Control Constru	uctio	n Per	rmit	
Location of Construction:         Project Start Date:           Project Coordinator:         Estimated Duration:           Contractor Performing Work         Permit Expiration Date:           Supervisor:         Telephone:           YES         NO         INFECTION CONTROL RISK GROUP           TYPE B: Small seak, short duration, moderate to high levels         GROUP 2: Medium Risk           TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion construction operations.         GROUP 2: Medium Risk           CLASS II         I. Execute work by methods to minimize raising dust from construction operations.         3. Minor Demolition for Remodeling construction operations.         3. Minor Demolition for Remodeling           CLASS II         I. Provides active means to prevent air-horne dust from dispersing into atmosphere 2. Water mist work straffaces to control dust while cuting. 3. Scal strances with disinfectant.         6. Contain construction waste before transport in tightly covered containers.           CLASS III         1. Obtain infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           7. Water mist work straffaces to control cube method before construction begins.         7. All personnel enterials carefully to minimize spreading of dir and debris associated with coverer explicits or work scient and where work is being performed/           Institut         1. Obtain infection control permit before construction begins.         7. All per					Permit No:	
Project Coordinator:         Estimated Duration:           Contractor Performing Work         Permit Expiration Date:           Supervisor:         Telephone:           YES         NO         INFECTION CONTROL RISK GROUP           Impose this provisor:         GROUP 1: Low Risk           TYPE Is:         NO         INFECTION CONTROL RISK GROUP           Impose this provisor:         GROUP 1: Low Risk           TYPE Is:         No         INFECTION CONTROL RISK GROUP           Impose this provisor:         GROUP 1: Low Risk           TYPE Is:         No         INFECTION CONTROL RISK GROUP           Impose this provisor:         GROUP 2: Medium Risk         GROUP 2: Medium Risk           Immodiately replace any celling the bigh levels of data: requires generat 1 work shift for completion         GROUP 4: Highest Risk           CLASS II         1.         Execute work with fiest to control dust while cutting:         3.           Minor Demolition for Remodeling         covered containers.         3.           Water main daves air vents.         5.         West may advor vacuum with HEPA filtered vacuum before leaving work area.           Seal unued doos with dust tape.         6.         Contain construction waste before transport in tight?           CLASS III         1.         Obtain infection control permit before construction begin	Location	of Construction:		Project Start Date:		
Contractor Performing Work         Permit Expiration Date:           Supervisor:         TClephone:           YES         NO         INFECTION CONTROL RISK GROUP           YES         NO         INFECTION CONTROL RISK GROUP           YES         NO         INFECTION CONTROL RISK GROUP           TYPE 1: Respection, non-invasive activing         GROUP 1: Low Risk           TYPE 2: Activity generates moderate to high levels of dast, requires greater 1 work shifts         GROUP 4: Highest Risk           CLASS II         1. Execute work by methods construction operations.         GROUP 4: Highest Risk           CLASS III         1. Provides active means to prevent air-borne dast from dispersing into atmosphere         3. Minor Demolition for Remodeling           2. Water miss does and years         9. Block off and seal air years         6. Contain construction waste before transport in tighty covered containers.           2. Ubasis infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           3. Ubasis infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           3. Ubasis infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           4. Maintain negative air pressure within work site utilizing HEPA equipped air filtraiton units.         7. All personale enterings work site arecouvering.           5. Boloce	Project (	Coordinator:		Estimated Duration:		
Supervisor:         Telephone:           YES         NO         CONSTRUCTION ACTIVITY         YES         NO         INFECTON CONTROL RISK GROUP           TYPE A: Inspection, non-invasive activity         GROUP 1: Low Risk         GROUP 2: Medium Risk           TYPE D: Small seels, short duration, moderate to high levels of dust, requires greater 1 work shift for completion         GROUP 2: Medium/High Risk           TYPE D: Major duration and construction activities Requiring consecutive work shifts         GROUP 2: Medium/High Risk           CLASS II         I. Execute work by methods to minimize raising dust from construction operations.         3.           2. Immediately replace any celling tile displaced for visual inspection.         3.         Minor Demolition for Remodeling           CLASS III         1. Provides active mens to prevent air-borne dust from dispersing into atmosphere         6.         Contain construction waste before transport in tightly covered containers.           Seal unues doors with dust tape.         8.         Pilec dust mat at entrace and exit of work area.           9.         Wear mist work surfaces to control dust while cutting.         6.         Contain construction waste before transport in tightly covered containers.           CLASS III         1. Obtain infection centrol permit before construction begins.         7.         We trans where work is being door to prevent containation of due et system.         7.           1. Obtain infecti	Contract	or Performing Work		Perr	nit Expiration Date:	
YES     NO     CONSTRUCTION ACTIVITY     YES     NO     INFECTION CONTROL RISK GROUP       TYPE A: Inspection, non-invasive activity     GROUP 1: Low Risk     GROUP 1: Low Risk       TYPE C: Small scied, stort duration, moderate to high levels     GROUP 3: Medium/Risk       TYPE C: Activity generates moderate to high levels of dast, requires greater 1 work shift for completion     GROUP 3: Medium/High Risk       CLASS I     TYPE D: Major duration and construction activities Requiring consecutive work shifts     GROUP 4: Highest Risk       CLASS II     I. Execute work by methods to minimize raising dust from dispersing into atmosphere     3.       2.     Immediately replace any celling tile displaced for visual inspection.     6.       2.     Inomediately replace any celling tile displaced for visual inspection.     7.       3.     Sala unused doors with duct tape.     6.       4.     Block off and seal air veals.     7.       5.     Wipe surfaces with disinfectant.     7.       6.     Lobatin infection control permit before construction begins.     7.       7.     Lisolate HVAC system in area where work is being door to prevent contamination of the dat system.     7.       7.     Lisolate HVAC system in area where work is being door to prevent contamination of the dat system.     7.       8.     Lisolate HVAC system in area where work is being door to prevent contamination of duct system.     7.	Supervis	or:		Tele	ephone:	
TYPE A: Inspection, non-invasive activity         GROUP 1: Low Risk           TYPE B: Small scale, short duration, moderate to high levels         GROUP 1: Low Risk           TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion         GROUP 1: Medium/High Risk           CLASS II         1. Execute work by methods to minimize mising dust from construction operations.         GROUP 4: Highest Risk           CLASS III         1. Execute work by methods to minimize mising dust from dispersing into atmosphere         3. Minor Demolition for Remodeling           CLASS III         1. Provides active means to prevent air-borne dust from dispersing into atmosphere         6. Contain construction waste before transport in tight?           2. Water mist and scal ar vents.         5. Wip surfaces with duct tape.         7. Wet mog wind with HEPA filtered vacuum.           3. Isolate HVAC system in area where work is being doe to prevent contamination of the duct system.         6. Vecuum work with HEPA filtered vacuums.           CLASS III         1. Obtain infection control permit before construction begins.         6. We to mg with disinfectant.           Date         1. Obtain infection control permit before construction begins.         6. Vecuum work with HEPA filtered vacuums.           The control permit before construction begins.         7. All personnel entering work site are required to weat she corrers.           Date         1. Obtain infection control permit before construction begins.	YES NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP	
TYPE B: Small scale, short duration, moderate to high levels of moderate to high levels of dust, requires greater 1 work shift for completion         GROUP 2: Medium Risk           TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion         GROUP 3: Medium/High Risk           CLASS I         1. Execute work by methods to minimize raising dust from construction experiations.         3. Minor Demolition for Remodeling           CLASS II         1. Provides active means to prevent air-borne dust from dispersing into atmosphere         3. Minor Demolition for Remodeling           CLASS III         1. Provides active means to prevent air-borne dust from dispersing into atmosphere         6. Contain construction waste before transport in tightly covered containcrs.           2. Water mist work surfaces to control dust while cutting.         8. Place dust mat at entrance and exit of work area.           3. Complete all critical barriers or implement control cube method before construction begins.         6. Vacuum work with HEPA filtered vacuums.           4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.         6. Vacuum work with disinfectant.           5. Do not remove barrier from row barrier from row series from work area until complet provent containation of the dust system.         7. All personal e entering work as it are removed ack time they leave the work site.           6. Contain construction waste before transport in tightly covered containers.         7. We thony with HEPA filtered vacuums.           7. We they		TYPE A: Inspection, non-invasive activity			GROUP 1: Low Risk	
Image: Install         TYPE C. Activity generates moderate to high levels of dust, requires greater 1 work shift for completion Requiring consecutive work shift         GROUP 3: Medium/High Risk           CLASS II         1. Execute work by methods to minimize mising dust from construction operations.         3. Minor Demolition for Remodeling           CLASS II         1. Provides active means to prevent air-borne dust from dispersing into atmosphere         6. Contain construction waste before transport in tight?           CLASS III         1. Obtain infection control germit before construction begins.         7. Wet mog and/or vacuum with HEPA filtered vacuums.           7. Used in the sector construction begins.         1. Obtain infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuum.           0. Date         1. Obtain infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           1. Obtain infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           1. Obtain infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           1. Obtain infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           1. Obtain infection control permit before construction begins.         7. All personnel centering work site are required to wear abec covers.           2. Date         1. Obtain infection control permit before construction begins.		TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk	
TYPE D: Major duration and construction activities Requiring consecutive work shifts         GROUP 4: Highest Risk           CLASS II         1. Execute work by methods to minimize raising dust from construction operations.         3. Minor Demolition for Remodeling           CLASS II         1. Provides active means to prevent air-borne dust from dispersing into atmosphere         3. Minor Demolition for Remodeling           CLASS III         1. Provides active means to prevent air-borne dust from dispersing into atmosphere         6. Contain construction waste before transport in tightly covered containers.           Stal numed doors with duct tape.         8. Block off and seal air vents.         7. Wet moy and/or vacuum with HEPA filtered vacuum before leaving work with HEPA filtered vacuums.           CLASS IIII         1. Obtain infection control permit before construction begins.         6. Vacuum work with HEPA filtered vacuums.           CLASS IIII         2. Isolate HVAC system in areas where work is being doe to prevent contamination of the dact system.         6. Contain construction waste before transport in tightly covered containers.           Date         4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.         7. All personnel entering work site are required to wear shee covers           Date         1. Obtain infection control permit before construction begins.         7. All personnel entering work site are required to wear shee covers           Date         1. Obtain infection control permit before construction weast be fore transpor		TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk	
CLASS I       1.       Execute work by methods to minimize raising dust from construction operations.       3.       Minor Demolition for Remodeling         CLASS II       1.       Provides active means to prevent air-borne dust from dispering into atmosphere       6.       Contain construction waste before transport in tightly covered containers.         CLASS III       1.       Provides active means to prevent air-borne dust while cutting.       6.       Contain construction waste before transport in tightly covered containers.         Seal unused doors with dust tape.       8.       Place dust mat at entrace and exit of work area.         S.       Wirps surfaces to control dust while cutting.       7.       Wet mog and/or vacuum with HEPA filtered vacuums.         CLASS III       1.       Obtain infection control permit before construction begins.       6.       Vacuum work with HEPA filtered vacuums.         CLASS III       1.       Obtain infection control permit before construction begins.       7.       Wet mog with disinfectant.         Bala       5.       boto remove barrier from work site utilizing method before construction begins.       7.       Wet mog with HEPA filtered vacuums.         I tablai       5.       Saal unless, durped air filtration units.       7.       Wet mog with disinfectant.         I tablai       5.       Do tet remove barrier from work site utilizing methob before construction begins.       7.		TYPE D: Major duration and construction activities Requiring consecutive work shifts			GROUP 4: Highest Risk	
CLASS II       1. Provides active mens to prevent air-borne dust from dispering into atmosphere       6. Contain construction watch before transport in tight) covered containers.         2. Water mist work surfaces to control dust while cutting.       7. Wet may and/or vacuum with HEPA filtered vacuums.         3. Seal unused doors with dust tape.       8. Place dust mat at entraced and or with MEPA filtered vacuums.         5. Wipe surfaces with disinfectant.       8. Place dust mat at entrace and exit of work area.         CLASS III       1. Obtain infection control permit before construction begins.       6. Vacuum work with HEPA filtered vacuums.         7. Wet may with disinfectant.       7. Wet may with disinfectant.       8. Place dust mat at entrace and exit of work area.         CLASS III       1. Obtain infection control permit before construction begins.       6. Vacuum work with HEPA filtered vacuums.         1. Obtain infection control permit before construction begins.       7. Wet may with disinfectant.         1. Obtain infection control permit before construction begins.       7. All personnel estering work site are required to wear she covers is being performed/         1. Obtain infection control permit before construction begins.       7. All personnel estering work site are required to wear she covers is being performed/         1. Obtain infection control permit before construction begins.       7. All personnel estering work site are required to wear she covers is being performed/         1. Obtain infection control permit before construction be	CLASS I	<ol> <li>Execute work by methods to minimize raising dust from construction operations.</li> <li>Immediately replace any ceiling tile displaced for visual inspection.</li> </ol>	3.	Minor D	emolition for Remodeling	
I.     Obtain infection control permit before construction begins.     6.     Vacuum work with HEPA filtered vacuums.       I.     Isolate HVAC system in area where work is being done in prevent contamination of the doct system.     7.     Wet mop with disinfection scartering the doct system.       Initial     Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.     6.     Vacuum work with HEPA filtered vacuums.       Initial     1.     Obtain infection control permit before construction begins.     6.     Vacuum work with MEPA filtered vacuums.       Initial     2.     Do not errow barrier from work area unil complete method before construction begins.     6.     Vacuum work with MEPA filtered vacuums.       I.     Obtain infection control permit before construction begins.     7.     8.     Complete all critical barriers or implement control cube method before construction begins.     7.     8.     1.     Complete all critical barriers or implement control cube method before construction begins.     7.     1.<	CLASS II	Provides active means to prevent air-borne dust from dispersing into atmosphere     Water miss work surfaces to control dust while cutting.     Seal unused doors with duct tape.     Block off and seal air vents.     Wipe surfaces with disinfectant.	Impection.         Contain construction waste before tran covered containers.           Water mist work surfaces to control dust while cutting. Seal mused doors with duct tape.         6. Contain construction waste before tran covered containers.           Water mist work surfaces to control dust while cutting. Block off and seal nit vents.         7. Wet mog and/or vacuum with HEPA 1 before leaving work area.           Block off and seal nit vents.         8. Place dust mat at entrance and exit of Place dust mat at entrance and exit of Place dust mat at entrance and exit of Place dust mat and exit of Plac		construction waste before transport in tightly containers. and/or vacuum with HEPA filtered vacuum aving work area. st mat a entrance and exit of work area. or isolate HVAC system in areas where work performed.	
1.       Obtain infection control permit before construction begins.       7.       All personnel entering work site are required to weat shee covers.         2.       Isolate HVAC system in area where work is being done to prevent contamination of duct system.       7.       All personnel entering work site are required to weat shee covers.         3.       Complete all critical barriers or implement control cube method before construction begins.       7.       All personnel entering work site are required to weat shee covers.         Date       4.       Maintain negative ait pressure within work site utilizing HEPA capited air filtration units.       5.       Seal holes, pipes, conduits, and prequire all personnel to pass through this noom so they can be vacuumed using a HEPA requiremer before leaving work site of they can aware cloth or paper coveralls that are removed each time they leave the work site.       10.       Construct content to the search time they leave the work site.       10.       Construction area with each time they leave the work site.       10.       Construction startuction waste before transport in tightly covered containers.         Additional Requirements:       2       Exceeptions/Additions to this permit         Date Initials       Exceeptions/Additions to this permit         Date Initials       Permit Authorized By:       Permit Authorized By:	CLASS III Date Initial	1.         Obtain infection control permit before construction begins.         6.         Vacuum work with HEPA filtered vac           2.         Isolate HVAC system in area where work is being done to prevent containation of the dust system.         6.         Wacum work with HEPA filtered vac           3.         Complete all critical barriers or implement control cube method before construction begins.         6.         Net mop with disinfectant           3.         Complete all critical barriers or implement control cube method before constructions waste before tran tighty covered containers.         8.         Remove barrier materials carefully to a spreading of dirt and debris associated constructions.           3.         Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.         6.         Contain construction waste before tran tighty covered containers.           attial         5.         Do not tranve barriers from work area until complete         10.         Renve or solidate HVAC system in a spreading of the VAC spreading and the vacuum spreading and the vacuum spreading and the vacuum spreading and the vacuum spreading and the vac		work with HEPA filtered vacuums. with disinfectant barrier materials carefully to minimize g of dirt and debris associated with tion. construction waste before transport in wered containers. maport receptacles or carts. Tape covering. or isolate HVAC system in areas where work performed/		
Date	Class IV	<ol> <li>Obtain infection control permit before construction begins.</li> <li>Isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> <li>Complete all critical barriers or implement control cube</li> </ol>	7. 8.	All perso shoe cov Do not re project is	onnel entering work site are required to wear ters emove barriers from work area until completed s thoroughly cleaned by the Environmental	
Initial         HEPA capipped air filtration units.         10. Wet map with disinfectant.           5. Seal holes, pipes, conduits, and punctures appropriately.         10. Wet map with disinfectant.           6. Construct unitroom and require all personnel to pass through this room so they can be vacuumed using at HEPA calout or paper coveralls that are removed each time they leave the work site.         10. Wet map with disinfectant.           10. Wet map with disinfectant.         11. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.           10. Wet map with disinfectant.         12. Contain construction.           11. Remove barrier materials carefully to minimize spreading of dirt and debris associated with covered containers.         13. Cover transport receptacles or carts. Tape covering.           14. Remove or isolate HVAC system in areas where is being dome.         14. Remove or isolate HVAC system in areas where is being dome.           Additional Requirements:         Exceptions/Additions to this permit           Date Initials         Date Initials are noted by attached memoranda           Permit Authorized By:         Permit Authorized By:	Date	method before construction begins. 4. Maintain negative air pressure within work site utilizing	9.	Service I Vacuum	Dept. work area with HEPA filtered vacuums.	
Additional Requirements:           Exceptions/Additions to this permit           Date Initials         Date_Initials are noted by attached memoranda           Permit Request By:         Permit Authorized By:	HEPA equipped air filtration units.         10. We           5. Scal holes, pipes, conduits, and punctures appropriately.         11. Rer           6. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can ware cloth or paper coveralls that are removed each time they can be required to the temperature of temper		Wet mop Remove spreadin construct Contain covered Cover tra Remove being do	with disinfectant. barrier materials carefully to minimize g of dirt and debris associated with ion. construction waste before transport in tightly containers. ansport receptacles or carts. Tape covering. or isolate HVAC system in areas where is ne.		
Exceptions/Additions to this permit           Date Initials         Date Initials are noted by attached memoranda           Permit Request By:         Permit Authorized By:	Additional R	equirements:				
Permit Request By: Permit Authorized By:	Date Initial		Date	Initials	Exceptions/Additions to this permit are noted by attached memoranda	
	Permit Requ	est By:	Permi	t Author	ized By:	
Date: Date:	Date:	and the second	Date:			

## UNIT 2 – Infection Control ICRA Matrix – Class II Guidelines (ICRMR's)



#### **During Construction**

- 1. Provide active means to prevent air-borne dust from dispersing into atmosphere.
- 2. Water mist work surfaces to control dust while cutting.
- 3. Seal unused doors with duct tape.
- 4. Block off and seal air vents.
- 5. Place dust mat at entrance and exit of work area.
- 6. Remove or isolate HVAC system in areas where work is being performed.

- 1. Wipe surfaces with disinfectant.
- 2. Contain construction waste before transport in tightly covered containers.
- 3. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area.

		Infection Control Constru	uctio	n Per	rmit			
					Permit No:			
Locat	tion o	of Construction:		Proj	Project Start Date:			
Proje	ct Co	pordinator:		Esti	mated Duration:			
Cont	racto	r Performing Work		Perr	mit Expiration Date:			
Supe	rviso	r:		Tele	ephone:			
YES	NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP			
		TYPE A: Inspection, non-invasive activity			GROUP 1: Low Risk			
		TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk			
		TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk			
		TYPE D: Major duration and construction activities Requiring consecutive work shifts			GROUP 4: Highest Risk			
CLASS	S I	Execute work by methods to minimize raising dust from construction operations.     Immediately replace any ceiling tile displaced for visual inspection	3.	Minor D	emolition for Remodeling			
CLASS	SΠ	Provides active means to prevent air-borne dust from dispersing into atmosphere     Water mix work surfaces to control dust while cutting.     Seal unused doors with duct tape.     Block off and seal air vents.     Wipe surfaces with disinfectant.	6. 7. 8. 9.	Contain construction waste before transport in ti covered containers. Wet mog and/or vacuum with HEPA filtered va before leaving work area. Place dust mat a entrance and exit of work area. Remove or isolate HVAC system in areas where is bains areformed.				
CLASS III Date		Obtain infection control permit before construction begins.     Isolate HVAC system in area where work is being done to prevent contamination of the duet system.     Complete all critical barriers or implement control cube method before construction begins.     Maintain negative air pressure within work site utilizing	6. 7. 8. 9.	Vacuum Wet more spreadin construct Contain tightly co	facuum work with HEPA filtered vacuums. Vet mop with disinfectant convo barrier materials carefully to minimize preading of dirt and debris associated with onstruction. Ontain construction waste before transport in phy covered containers.			
Initi	ial	<ol> <li>Do not remove barriers from work area until complete project is thoroughly cleaned by Env. Services Dept.</li> </ol>	11.	Remove is being	or isolate HVAC system in areas where work performed/			
Class I	v	Obtain infection control permit before construction begins.     Isolate HVAC system in area where work is being done to prevent contamination of duct system.     Complete all critical barriers or implement control cube	7. 8.	All perso shoe cov Do not re project is	onnel entering work site are required to wear ers emove barriers from work area until completed s thoroughly cleaned by the Environmental			
Dat	te	<ol> <li>Maintain negative air pressure within work site utilizing</li> </ol>	9.	Vacuum	work area with HEPA filtered vacuums.			
Initi	Initial         HEPA coupleped air filtration units.           5.         Scal holes, pipes, conduits, and punctures appropriately.           6.         Construct aniercount and require all personnel to pass through this room so they can be vacuum cleaner before leaving work sile or they can wear a cloth or paper coveralls that are removed each time they leave the work sile.		10. 11. 12. 13. 14.	Wet map with disinfectant. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. Contain construction waste before transport in tightly covered containers. Cover transport receptacles or carts. Tape covering, Remove or isolate HVAC system in areas where is being done.				
Additio	nal Req	uirements:						
Date I	nitials		-	Telefort	Exceptions/Additions to this permit			
Darmit I	Poquet	Der	Date Initials are noted by attached memoranda					
r ermit i	request	. bj.	Petinik Audiofized By:					
Date:								

## UNIT 2 – Infection Control ICRA Matrix – Class I Guidelines (ICRMR's)



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#### **During Construction**

- 1. Execute work by methods to minimize raising dust from construction operations.
- 2. Immediately replace any ceiling tile displaced for visual inspection.
- 1. Wipe surfaces with disinfectant.

	Infection Control Constru	uctio	on Permit			
			Permit No:			
Location	of Construction:		Project Start Date:			
Project Co	pordinator:		Estimated Duration:			
Contracto	r Performing Work		Permit Expiration Date:			
Superviso	r:		Telephone:			
YES NO	CONSTRUCTION ACTIVITY	YES	NO INFECTION CONTROL RISK GROUP			
	TYPE A: Inspection, non-invasive activity		GROUP 1: Low Risk			
	TYPE B: Small scale, short duration, moderate to high levels		GROUP 2: Medium Risk			
	TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion		GROUP 3: Medium/High Risk			
	TYPE D: Major duration and construction activities Requiring consecutive work shifts		GROUP 4: Highest Risk			
CLASS I	Execute work by methods to minimize raising dust from construction operations.     Immediately replace any ceiling tile displaced for visual inspection.	3. 1	Minor Demolition for Remodoling			
CLASS II	Provides active means to prevent air-borne dust from dispersing into atmosphere     Water mist work surfaces to control dust while cutting.     Seal unused doors with dust tape.     Block off and seal air vents.     Wipe surfaces with disinfectant.	6. 0 7. 1 8. 1 9. 1	Contain construction waste before transport in tightly covered containers. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. Place dust mat at entrance and exit of work area. Remove or isolate HVAC system in areas where wor is being performed.			
CLASS III Date Initial	Obtain infection control permit before construction begins.     Isolate HVAC system in area where work is being done to     prevent contamination of the duct system.     Complete all critical barriers or implement control cube     method before construction begins.     Maintain negative air pressure within work site utilizing     HEPA equipped air filtration units.     Do not remove barriers from work area unil complete     monies thorough before due to be more thoread by the sciences.	Vacuum work with HEPA filtered vacuums.     Wet map with disinfectant     Remove barrier materials earefully to minimize     spreading of dirt and debris associated with     construction.     Contain construction waste before transport in     tightly covered containers.     Cover transport receptacles or earts. Tape covering.     Remove or isolate HVAC system in areas where we     is being performed/     All personnel entering work site are required to we     shoe covers     bo not remove horizing velocation to entering     project is horoughly cleaned by the Environmental     project is horoughly cleaned by the Environmental				
Class IV	<ul> <li>project is moroaging created by EnV. Services uppl.</li> <li>Obtain infection control permit before construction begins.</li> <li>Isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> <li>Complete all critical burriers or implement control cube</li> </ul>					
Date	4. Maintain negative air pressure within work site utilizing	9.	Vacuum work area with HEPA filtered vacuums.			
Initial	HEPA capipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. Construct anicroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving works itor othey can wear cloth or paper coveralls that are removed each time they leave the work site.		<ol> <li>Wet mop with disinfectant.</li> <li>Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.</li> <li>Contain construction waste before transport in tigh covered containers.</li> <li>Cover tim ransport receptacles or carts. Tape covering 14. Remove or isolate HVAC system in areas where is being done.</li> </ol>			
Additional Rea	quirements:					
Date Initials		Date	Exceptions/Additions to this permit Initials are noted by attached memoranda			
Permit Reques	t By:	Permit Authorized By:				
		-				

## UNIT 2 – Infection Control Types of Containment







### **Control Cubes**



NFPA 101: For any walls that are compromised, the containment wall shall meet the same fire rating of existing wall, or a fire watch is required.



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# UNIT 2 – Infection Control Infection Control Risk Mitigation Guidelines



- ✤ Barriers (Class II, III & IV)
  - Isolation of HVAC systems
  - Isolation of work area
- ✤ Negative Air (Class III & IV)
  - > Airflow into work area (clean  $\rightarrow$  dirty)
  - Construction exhaust to exterior and HEPA filtered
  - Manometer readings minimum -0.01" to -0.03" wc as required by ICRA

# Movement of Supplies and Debris

- (All Classes)
  - ✓ Tightly covered containers
  - ✓ Exterior of containers dust free
- Training (All Classes)
  - 3 C's





## UNIT 2 – Infection Control Summary



### Infection Control Construction Guidelines are

procedures to control release of airborne contaminants resulting from construction, demolition, or renovation activities into the Patient Environment.

> Everybody is responsible for Infection Control from day one. It is a continuous process. It is everyone's job.



## **3 C'S COURSE OBJECTIVE**



Unit 1 – Safety

Unit 2 – Infection Control Infection Control Risk Assessment (ICRA)

Unit 3 – Interim/Alternative Life Safety Measures (ILSM/ALSM)

Unit 4 – Policies and Procedures





# UNIT 3 – Interim Life Safety Measures (ILSM)



During a project it is inevitable that some features of life safety will be interrupted or altered. When this happens, Interim Life Safety Measures (ILSM) are implemented.

Note: Also known as Alternative Life Safety Measures (ALSM)



# UNIT 3 – Interim Life Safety Measures (ILSM)

## When should ILSM's be implemented?

- When construction alters any required Life Safety Code element
- When a Life Safety deficiency is <u>discovered or</u> <u>created</u>:
  - ✓ Blocking required exits or egress routes
  - ✓ Loss of integrity of fire walls or smoke barriers
  - ✓ Fire alarm or fire sprinkler protection system impairment
  - ✓ Utility service disruption
- When a life-threatening condition exists





# UNIT 3 – Interim Life Safety Measures (ILSM)

### **ILSM Checklist**

- 1. Inspect exits in affected areas daily. Are exits clear of all equipment and materials?
- 2. Are exit signs visible and properly illuminated?
- 3. Do all fire doors close and positively latch (absent wedges and/or tape)?
- 4. Provide temporary but equivalent fire alarm and detection systems for use when a fire system is impaired.
- 5. Inspect, test and document temporary systems monthly.

Smoke Compartment Compartment
Smoke Compartment

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# UNIT 3 – Interim Life Safety Measures (ILSM) ILSM Sample Checklist

## **ILSM Checklist (cont.)**

- 6. Are fire extinguishes inspected monthly?
- 7. Use temporary construction partitions that are smoke-tight, or made of noncombustible material, or made of limited combustible material that will not contribute to the development or spread of fire.
- 8. Enforce storage, housekeeping, and debris removal practices that reduce the building's flammable and combustible fire load to the lowest feasible level.





# UNIT 3 – Interim Life Safety Measures (ILSM) ILSM Sample Checklist

## ILSM Checklist (cont.)

- 9. Is flooring in good repair free of slipping/tripping hazards?
- 10. Is there 36" clearance around electrical panels, med gas shut-offs, fire extinguishers, pull stations?
- 11. Are doors to hazardous areas kept closed and latched?
- 12. Increase surveillance of buildings, grounds, and equipment, giving special attention to construction areas and storage, excavation and field offices.



## **3 C'S COURSE OBJECTIVE**



Unit 1 – Safety

Unit 2 – Infection Control Infection Control Risk Assessment (ICRA)

Unit 3 – Interim/Alternative Life Safety Measures (ILSM/ALSM)

**Unit 4 – Policies and Procedures** 







# **UNIT 4 – POLICIES AND PROCEDURES**

- Permits follow the facility guidelines to pull, maintain, and close out permits required for construction tasks
  - Infection Control Construction Permit
  - ✓ Ceiling Access Permit
  - ✓ Confined Space Permit
  - ✓ Fire Alarm / Sprinkler Permit
  - ✓ Firewall Penetration Permit
  - ✓ Hot Work Permit
  - ✓ Utility Shutdown Permit



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# UNIT 4 – POLICIES AND PROCEDURES Health Care Accreditation Organizations



- Construction Risk Assessment
  - ✓ Air Quality
  - ✓ Infection Control
  - ✓ Utilities
  - ✓ Noise
  - ✓ Vibration
  - ✓ Emergency Procedures
- DNV (Det Norske Veritas)
- HFAP (Healthcare Facilities Accreditation Program)



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## UNIT 4 – POLICIES AND PROCEDURES Emergency Codes



All contractors must be familiar with the facility emergency codes. Below are some examples, but each location will be site specific. The codes will be posted on the jobsite.

Code Red	Code Blue	Code Black
Fire situation. Prepare to evacuate as instructed.	Cardiac/Respiratory Arrest	Bomb Threat
Code Silver (Anderson)	Code Pink (Stork/Adam)	Code Orange
Active shooter Hostage situation	Infant abduction	External Hazardous Material Spill or Release
Code Yellow		Code Grey
Internal Chemical Spill	Bioterrorism	Tornado / High Winds



# UNIT 4 – POLICIES AND PROCEDURES Emergency Responses – Knowing Our Role



## ✤ Fire Response

- Healthcare Response Defend in Place
  - $\checkmark$  R Rescue the Patient/Victim
  - $\checkmark$  A Activate the Alarm
  - $\checkmark$  C Contain the Fire
  - ✓ E Extinguish & Evacuate
- Contractor Prepare to evacuate as instructed
- Code Blue Clear corridors
- Child Abduction Be aware and prepare for potential lockdown
- Severe Weather Secure site and know safe area of refuge









## **UNIT 4 – POLICIES AND PROCEDURE**



ID Badge	Parking	Designated Area
All contractors must obtain and wear badges	Park only in lots or areas assigned by facility. Due not park in spaces reserved for patients or staff.	Lunch breaks or other authorized breaks are to be taken in designated areas.
ΗΙΡΑΑ	Security	Radios
Confidentiality of patients and their healthcare information Contractors are not allowed to access patient information.	Job site should be secured from unauthorized entry at all times	No radios, headphones, or personal music players



# **UNIT 4 – POLICIES AND PROCEDURE**



Hand Washing	If you are Sick	Wireless Devices
Hand washing is the single most effective means to prevent transmission of infections.	Do not work in the healthcare facility if you have a fever, rash or contagious illness or infection.	Wireless devices can interfere with medical equipment. Follow the facility polices or guidelines.
Flammable Liquids	Hazardous Materials	Dress Code



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## **UNIT 4 – POLICIES AND PROCEDURE**

Understand you are in the *healthcare environment*, patients and staff are the fundamental concern during all activities. Each craftsperson has an impact on *the patient experience*.

Your *care* is essential to ensure that impact is positive.

You are part of the Centennial Healthcare Team.

A hardhat sticker will be issued after completion of the orientation program. The orientation program is valid for the year and must be retaken yearly.

