

## Infection Control Risk Assessment

### Step 1:

Using the following table, *identify* the type of construction activity (A-D)

<b>Type A</b>	<b>Inspection and Non-Invasive Activities:</b> Includes, but is not limited to: <ul style="list-style-type: none"><li>▪ removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet</li><li>▪ painting (but not sanding)</li><li>▪ wallcovering, 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.</li></ul>
<b>Type B</b>	<b>Small scale, short duration activities which create minimal dust</b> Includes, but is not limited to: <ul style="list-style-type: none"><li>▪ installation of telephone and computer cabling</li><li>▪ access to chase spaces</li><li>▪ cutting of walls or ceiling where dust migration can be controlled</li></ul>
<b>Type C</b>	<b>Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies</b> Includes, but is not limited to: <ul style="list-style-type: none"><li>▪ sanding of walls for painting or wallcovering</li><li>▪ removal of floor coverings, ceiling tiles and casework</li><li>▪ new wall construction</li><li>▪ minor duct work or electrical work above ceilings</li><li>▪ major cabling activities</li><li>▪ any activity which cannot be completed within a single work-shift</li></ul>
<b>Type D</b>	<b>Major demolition and construction projects</b> Includes, but is not limited to: <ul style="list-style-type: none"><li>▪ activities which require consecutive work shifts</li><li>▪ requires heavy demolition or removal of a complete cabling system</li><li>▪ new construction</li></ul>

**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:

Group 1 Low Risk	Group 2 Medium Risk	Group 3 High Risk	Group 4 Highest Risk
<ul style="list-style-type: none"> <li>▪ Office areas</li> <li>▪ Non-patient areas</li> </ul>	<ul style="list-style-type: none"> <li>▪ Patient areas not listed in groups 3, 4</li> <li>▪ Materials Management</li> <li>▪ PT/OT/Speech</li> <li>▪ Admission/Discharge</li> <li>▪ Public Corridors (through which patients, supplies, linens pass)</li> <li>▪ Laboratories , not specified in group 3</li> <li>▪ Echocardiography</li> <li>▪ Nuclear Medicine</li> <li>▪ Physical Therapy</li> <li>▪ MRI</li> <li>▪ Respiratory Therapy</li> <li>▪ Cafeteria</li> <li>▪ Dietary</li> </ul>	<ul style="list-style-type: none"> <li>▪ CCU</li> <li>▪ Emergency Room</li> <li>▪ Radiology</li> <li>▪ Labor &amp; Delivery</li> <li>▪ Microbiology/Virology Laboratories</li> <li>▪ Intensive Care Units</li> <li>▪ Level 2 Nursery</li> <li>▪ Newborn Nursery</li> <li>▪ Long Term/Subacute Units</li> <li>▪ Dialysis</li> <li>▪ Endoscopy</li> <li>▪ Outpatient Surgery</li> <li>▪ Pediatrics</li> <li>▪ Pharmacy</li> <li>▪ Post Anesthesia Care Unit</li> <li>▪ Surgical Units</li> </ul>	<ul style="list-style-type: none"> <li>▪ Any area caring for immunocompromised patients</li> <li>▪ Burn Unit</li> <li>▪ CVICU</li> <li>▪ Cardiac Catheterization</li> <li>▪ Angiography Areas</li> <li>▪ Central Sterile Supply/Processing</li> <li>▪ Pharmacy Admixture</li> <li>▪ Negative Pressure Isolation Rooms</li> <li>▪ Oncology</li> <li>▪ Radiology Oncology Suite</li> <li>▪ Anesthesia and Pump areas</li> <li>▪ Operating rooms including C-section rooms</li> </ul>

**Step 3:**

Match the Patient Risk Group (Low, Medium, High, Highest) with the planned Construction Project Type (A,B,C, D) on the IC Matrix to find the Class of Precautions (I, II, III, IV) or level of Infection Control Activities required. Classes of Precautions are described in the table on the next page.

**IC Matrix: Class of Precautions for Construction Projects by Patient Risk**

Patient Risk Group	Construction Project Type			
	Type A	Type B	Type C	Type D
LOW Risk Group	I	II	II	III/IV
MEDIUM Risk Group	I	II	III	IV
HIGH Risk Group	I	II	III/IV	IV
HIGHEST Risk Group	II	III/IV	III/IV	IV

**Note:** Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV procedures are necessary.

## Description of Required Infection Control Precautions by Class

	During Construction Project	Upon Completion of Project
<b>CLASS I</b>	<ol style="list-style-type: none"> <li>1. Execute work by methods to minimize raising dust from construction operations.</li> <li>2. Immediately replace a ceiling tile displaced for visual inspection</li> </ol>	
<b>CLASS II</b>	<ol style="list-style-type: none"> <li>1. Provide active means to prevent airborne dust from dispersing into atmosphere.</li> <li>2. Water mist work surfaces to control dust while cutting.</li> <li>3. Seal unused doors with duct tape.</li> <li>4. Block off and seal air vents.</li> <li>5. Place dust mat at entrance and exit of work area.</li> <li>6. Remove or isolate HVAC system in areas where work is being performed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Wipe work surfaces with disinfectant.</li> <li>2. Contain construction waste before transport in tightly covered containers.</li> <li>3. Wet mop and/or vacuum with HEPA-filtered vacuum before leaving work area.</li> <li>4. Remove isolation of HVAC system in areas where work was performed.</li> </ol>
<b>CLASS III</b>	<ol style="list-style-type: none"> <li>1. Remove or isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> <li>2. Complete all critical barriers i.e., sheetrock, plywood, 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 for vacuuming prior to exit) before construction begins.</li> <li>3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> <li>4. Contain construction waste before transport in tightly covered containers.</li> <li>5. Cover transport receptacles or carts. Tape covering unless solid lid.</li> </ol>	<ol style="list-style-type: none"> <li>1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department.</li> <li>2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.</li> <li>3. Vacuum work area with HEPA filtered vacuums.</li> <li>4. Wet mop area with disinfectant.</li> <li>5. Remove isolation of HVAC system in areas where work was performed.</li> </ol>
<b>CLASS IV</b>	<ol style="list-style-type: none"> <li>1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> <li>2. Complete all critical barriers i.e., sheetrock, plywood, 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 for vacuuming prior to exit) before construction begins.</li> <li>3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> <li>4. Seal holes, pipes, conduits, and punctures appropriately.</li> <li>5. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum before leaving the work site; or they can wear cloth or paper coveralls that are removed each time they leave the work site.</li> <li>6. All personal entering the work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.</li> <li>7. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department.</li> </ol>	<ol style="list-style-type: none"> <li>1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department.</li> <li>2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.</li> <li>3. Contain construction waste before transport in tightly covered containers.</li> <li>4. Contain transport receptacles or carts. Tape covering unless solid lid.</li> <li>5. Vacuum work area with HEPA -filtered vacuums.</li> <li>6. Wet mop area with disinfectant.</li> <li>7. Remove isolation of HVAC system in areas where work was performed.</li> </ol>