

Source Control: Identify potential source of contamination from both outdoors as well as indoors. Exposure to Volatile Organic Compounds (VOCs) from building materials can cause uneasiness and discomfort. Low-toxicity, low-emitting, moisture-resistant materials can be selected wherever possible. Restrict traffic volume and prohibit idling of motor vehicles where emissions could be drawn into the building. Implementation of non-smoking policy is recommended.

Pathway Interruption: Identify potential source of pollution causing activities and isolate the work areas from clean or occupied spaces (as shown in fig. 401.02(2)). Ventilation and exhaust systems can be employed to create pressure difference between two spaces and preventing the dirty air entering the clean sections. Doors, windows, stairs and cutouts shall be closed to prevent them acting as conduits for contaminants.

Scheduling: Schedule the wet application of materials (including paints, sealers, insulation, adhesives, caulking and cleaners) to take place prior to installing highly absorbent materials (such as ceiling tiles, gypsum wall board, fabric furnishings, carpet and insulation, etc.).



Fig 401.02(2): Sample Photo of Pathway Interruption

House Keeping: Perform thorough cleaning of the site during construction works and prior to occupancy of the building. Suppress and minimise dust with wetting agents or sweeping compounds during housekeeping. Quickly clean up spills and prevent accumulations of water inside the building. Prior to installation, store the building materials in clean and protected way especially those with moisture absorbing properties should be kept dry.

For renovation or decoration projects, develop IAQ impact assessment plan pertaining to all anticipated work activities, associated source contaminants like lead, asbestos, it's generation points and areas affected by the migration of air contaminants. Identify specific control measures required for the project like removal and disposal of the asbestos, carried out as per the guidelines of Dubai Municipality and by approved personnel, isolating areas under renovation from adjacent occupied spaces using impermeable barriers, usage of proper ventilation strategy to prevent migration of air contaminants, identifying logistic plans through unoccupied areas and away from building entrances and occupants. Contractor to ensure adequately trained staffs are employed during the renovation activities to implement the IAQ strategies.