

Indoor Air Quality (IAQ) Management

Indoor air quality (IAQ) is critical for ensuring safe and healthy environments in all NCC T&D operations, from office spaces and control rooms to confined areas on project sites. Maintaining good IAQ minimizes health risks and promotes productivity across all work areas.

NCC T&D Project Leaders Key Responsibilities

Project Leaders must ensure:

- **Assessment:** Conduct regular assessments to identify potential indoor air quality issues in work areas.
- **Monitoring:** Implement and maintain air quality monitoring systems, ensuring data is recorded and reviewed regularly.
- **Ventilation Management:** Ensure that ventilation systems are properly designed, installed, and maintained to provide adequate fresh air.
- **Maintenance Oversight:** Schedule and document routine inspections and maintenance of HVAC systems, filters, and related equipment.
- **Communication:** Clearly inform staff about IAQ procedures, potential risks, and necessary corrective actions.

Indoor Air Quality Control Measures

NCC T&D leaders can implement several measures to maintain optimal indoor air quality:

- **Ventilation Improvement:** Utilize mechanical or natural ventilation systems to ensure a continuous supply of fresh air.
- **Source Control:** Identify potential sources of indoor pollutants and implement strategies to control or eliminate them.
- **Filtration Systems:** Install effective filtration systems that capture airborne contaminants and regularly replace filters as recommended.
- **Humidity Control:** Monitor and adjust humidity levels to prevent the growth of mold and other moisture-related issues.
- **Regular Audits:** Perform periodic IAQ audits to evaluate performance and update control measures as needed.

Worker Responsibilities

Workers are required to:

- **Report Issues:** Immediately report any signs of poor air quality or equipment malfunctions to their supervisor.
- **Follow Procedures:** Adhere strictly to IAQ protocols and safe practices as detailed in NCC T&D guidelines.
- **Participate in Training:** Attend training sessions focused on understanding and managing indoor air quality risks.
- **Maintain Cleanliness:** Keep individual workspaces clean and free of unnecessary pollutants to support overall IAQ.

Additional Considerations for NCC T&D Projects

Due to the nature of our operations, additional considerations include:

- **Real-Time Monitoring:** Utilize continuous monitoring to quickly detect any deviations in air quality.
- **Equipment Compatibility:** Ensure that IAQ systems are tailored to the specific needs of different project environments.
- **Emergency Response:** Develop and communicate contingency plans for immediate action if air quality deteriorates suddenly.
- **Documentation:** Maintain comprehensive records of all IAQ assessments, maintenance activities, and corrective measures implemented.

Key Takeaways

- **Proactive Management:** Regular assessments, monitoring, and maintenance are essential for sustaining optimal indoor air quality.
- **Clear Communication:** Continuous training and clear communication ensure that all stakeholders are aware of IAQ procedures and responsibilities.



- Prompt Action: Immediate reporting and timely corrective actions help mitigate potential IAQ issues.
- Compliance: All IAQ measures should be implemented in line with the client and NCC T&D HSE management system requirements.

For further details or expert guidance, please refer to the NCC T&D's relevant IMS procedures or consult with our HSE Department.

