Breathing New Life Into The Control Of Respirable Silica:
The Science and the Psychology of a Chronic Workplace Hazard

~ The application of communication tools to improve worker safety and team production-

Course Goal: Promote consistently high levels of hazard awareness and precautions available to prevent chronic respirable silica injuries.

Course Outcomes:

Crew Leads and Workers will have a clear basic understanding of the hazards posed by respirable silica.

Formal and informal leaders will practice techniques to improve skills as a coach and a mentor. Knowing the different requirements of both roles is critical for leadership in reducing exposure to possible silicosis.

Development of good communication and team-building skills directly influence awareness of chronic workplace hazards of respirable silica.
Breathing New Life Into The Control Of Respirable Silica:
The Science and the Psychology of a Chronic Workplace Hazard
is comprised of two modules taught in a 7.5-hour format as follows:

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<tr>
<th>Module 1. The Science of Silica</th>
<th>Module II. The Psychology of Silica</th>
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<td>Outcome: Explain the scientific and biological hazards of acute and chronic exposure to respirable silica.</td>
<td>Outcome: This module addresses your ability to effectively lead, teach, and mentor your workers and co-workers in eliminating exposure to respirable silica in the workplace over a prolonged period.</td>
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Learning Objectives:

Upon successful completion of this module, you will be able to:

Module I: The Science of Silica

1. Describe, with clarity, in nonprofessional terms the hazards posed by exposure to respirable silica.
2. Explain which controls are most effective and which are least effective in controlling exposure to SiO2.
3. Demonstrate understanding of both employer and employee responsibility with regard to Respirable Silica.
4. Explain the scientific thresholds for Respirable Silica exposures.
5. Describe record-keeping requirements for employers where airborne silica is generated.

Module II: The Psychology of Silica

1. Describe techniques to improve long-term retention of chronic hazard awareness.
2. Explain why constant reinforcement is critical to maintaining a chronic hazard compliant workplace.
3. Demonstrate knowledge of fundamental OSHA medical compliance requirements.
4. Explain psychological barriers to workplace cultural change and methods to overcome those barriers.
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The Science and the Psychology of a Chronic Workplace Hazard

Suggested 7.5 hour Agenda

Note: This agenda can be delivered in any configuration to total the 7.5-hour course.

8:00am – 5:00pm with 1 hour for lunch (with two 15-minute breaks)

Goals for the Training; Participant

Expectations, registration and pre-course assessment .5 hour

Module 1 – The Science of Respirable Silica 3.5 hours

Lunch (1 hour)

Module 2 – The psychology of training for chronic hazards and building constant awareness 3.0 hours

Assessment and Wrap-up .5 hour