

OSHA Respirable Crystalline Silica Training — Construction

Course Resources — English

This sheet lists the primary regulation, case study sources, and supporting OSHA and NIOSH resources used in the construction silica course. All links open to the original publishers (OSHA, NIOSH/CDC, eCFR, peer-reviewed journals).

Primary Regulation

29 CFR 1926.1153 — Respirable Crystalline Silica (Construction) - OSHA:
<https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.1153> - eCFR:
<https://www.ecfr.gov/current/title-29/subtitle-B/chapter-XVII/part-1926/subpart-Z/section-1926.1153>

OSHA Silica Standard for Construction — Topic Page - <https://www.osha.gov/silica-crystalline/construction>

OSHA Frequently Asked Questions — Construction Silica Standard -
<https://www.osha.gov/silica-crystalline/construction-info>

Case Study Sources

Module 1 — Silicoproteinosis in a Young US Mason (Lyons et al., 2007)

Lyons JJ, Sime PJ, Ward D, Watson T, Abraham JL, Evans R, Budev M, Costas K, Beckett WS. A breathless builder. *Breathe* (European Respiratory Society). 2007;3(4):386–390. - Journal page:
<https://publications.ersnet.org/content/breathe/3/4/386> - DOI:
<https://doi.org/10.1183/18106838.0304.386>

Module 7 — A Rock Driller Who Never Saw a Doctor (NIOSH Alert 96-112, Case Report No. 4)

Linch KD, Groce DW, Musgrave KJ, Jajosky RA, Short SR, Parker JE. NIOSH Alert: Request for Assistance in Preventing Silicosis and Deaths in Construction Workers.

DHHS (NIOSH) Publication No. 96-112, May 1996. - NIOSH publication page:

<https://stacks.cdc.gov/view/cdc/21282> - Full PDF:

https://stacks.cdc.gov/view/cdc/21282/cdc_21282_DS1.pdf

Module 9 — Friendswood High School Demolition (OSHA, December 14, 2023)

U.S. Department of Labor / OSHA News Release: Department of Labor finds two Houston contractors willfully ignored federal safety requirements, leading to fatal roof collapse at high school. ICI Construction Inc. and Emanuel Enterprises LLC, Houston, TX. - Original DOL release:

<https://www.dol.gov/newsroom/releases/osha/osha20231214-0> - OSHA archive copy:

<https://osha.prod.pace.dol.gov/news/newsreleases/dallas/20231214>

Supporting OSHA Resources — Construction Silica

OSHA Small Entity Compliance Guide for the Respirable Crystalline Silica Standard in Construction (OSHA 3902-2024) -

<https://www.osha.gov/sites/default/files/publications/OSHA3902.pdf>

OSHA's Crystalline Silica Rule: Construction — Overview Fact Sheet (OSHA FS 3681) -

<https://www.osha.gov/sites/default/files/publications/OSHA3681.pdf>

Controlling Silica Dust in Construction — Fact Sheets for Table 1 Tasks (English)

Task	OSH A Pub #	Link
Handheld Power Saws	FS 3627	https://www.osha.gov/sites/default/files/publications/OSHA3627.pdf
Handheld Grinders — Other Than Mortar Removal	FS 3628	https://www.osha.gov/sites/default/files/publications/OSHA3628.pdf
Jackhammer s & Handheld Powered Chipping Tools	FS 3629	https://www.osha.gov/sites/default/files/publications/OSHA3629.pdf

Handheld & Stand-Mounted Drills	FS 3630	https://www.osha.gov/sites/default/files/publications/OSHA3630.pdf
Handheld Grinders — Mortar Removal (Tuckpointing)	FS 3632	https://www.osha.gov/sites/default/files/publications/OSHA3632.pdf
Fiber-Cement Board	FS 3927	https://www.osha.gov/sites/default/files/publications/OSHA3927.pdf
Drivable Saws	FS 3928	https://www.osha.gov/sites/default/files/publications/OSHA3928.pdf
Rig-Mounted Core Saws or Drills	FS 3929	https://www.osha.gov/sites/default/files/publications/OSHA3929.pdf
Dowel Drilling Rigs for Concrete	FS 3930	https://www.osha.gov/sites/default/files/publications/OSHA3930.pdf
Large Drivable Milling Machines (Half-Lane and Larger)	FS 3934	https://www.osha.gov/sites/default/files/publications/OSHA3934.pdf
Crushing Machines	FS 3935	https://www.osha.gov/sites/default/files/publications/OSHA3935.pdf
Heavy Equipment Used During Demolition	FS 3936	https://www.osha.gov/sites/default/files/publications/OSHA3936.pdf

OSHA/NIOSH Hazard Alert — Worker Exposure to Silica during Hydraulic Fracturing (OSHA HA-3566) - <https://www.osha.gov/sites/default/files/publications/OSHA3566.pdf>

OSHA Sample Training PowerPoint for Construction - Available from:
<https://www.osha.gov/silica-crystalline/construction>

OSHA National Emphasis Program — Respirable Crystalline Silica -

<https://www.osha.gov/enforcement/directives/cpl-03-00-023>

Inspection Procedures for the Respirable Crystalline Silica Standards (CPL 02-02-080) -

https://www.osha.gov/sites/default/files/enforcement/directives/CPL_02-02-080.pdf

Supporting NIOSH Resources — Construction Silica

NIOSH Alert: Preventing Silicosis and Deaths in Construction Workers (DHHS/NIOSH 96-112) - Publication page: <https://stacks.cdc.gov/view/cdc/21282> - PDF:

https://stacks.cdc.gov/view/cdc/21282/cdc_21282_DS1.pdf

NIOSH Workplace Solutions: Control of Hazardous Dust During Tuckpointing (Publication 2008-126) - [https://www.cdc.gov/niosh/docs/wp-solutions/2008-](https://www.cdc.gov/niosh/docs/wp-solutions/2008-126/pdfs/2008-126.pdf)

[126/pdfs/2008-126.pdf](https://www.cdc.gov/niosh/docs/wp-solutions/2008-126/pdfs/2008-126.pdf)

NIOSH Workplace Solutions: Water Spray Control of Hazardous Dust When Breaking Concrete with a Jackhammer (Publication 2008-127) -

<https://www.cdc.gov/niosh/docs/wp-solutions/2008-127/>

NIOSH Hazard Review: Health Effects of Occupational Exposure to Respirable Crystalline Silica (Publication 2002-129) - [https://www.cdc.gov/niosh/docs/2002-](https://www.cdc.gov/niosh/docs/2002-129/pdfs/2002-129.pdf)

[129/pdfs/2002-129.pdf](https://www.cdc.gov/niosh/docs/2002-129/pdfs/2002-129.pdf)

NIOSH B Reader Program (information on chest X-ray interpretation for silicosis and a list of certified B Readers) -

<https://www.cdc.gov/niosh/topics/chestradiography/breader-info.html>

NIOSH Guideline: Application of Digital Radiography for the Detection and Classification of Pneumoconiosis (Publication 2011-198) - <https://www.cdc.gov/niosh/docs/2011-198/>

NIOSH Construction Program — Silica Research Overview -

<https://www.cdc.gov/niosh/bulletin/2021/construction-50.html>

Surveillance and Background

MMWR: Silicosis Mortality Trends and New Exposures to Respirable Crystalline Silica — United States, 2001–2010 -

<https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6405a1.htm>

MMWR: Surveillance for Silicosis — Michigan and New Jersey, 2003–2011 -

<https://www.cdc.gov/mmwr/volumes/63/wr/mm6355a7.htm>

CDC NIOSH Silicosis Update — Construction Industry Mortality -

<https://www.cdc.gov/niosh/blogs/2015/silicosis-update.html>

Cross-Referenced OSHA Standards

Standard	Title	Link
29 CFR 1926.1153	Construction Silica	https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.1153
29 CFR 1910.134	Respiratory Protection	https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.134
29 CFR 1910.1200	Hazard Communication	https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1200
29 CFR 1910.1020	Access to Employee Exposure and Medical Records	https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1020
29 CFR 1926.57	Ventilation (referenced for abrasive blasting)	https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.57
29 CFR 1926.55	Gases, Vapors, Fumes, Dusts, and Mists	https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.55

How to Contact OSHA and NIOSH

OSHA Information: 1-800-321-OSHA (6742) | <https://www.osha.gov> NIOSH Information: 1-800-CDC-INFO (232-4636) | <https://www.cdc.gov/niosh>

To report a silicosis case, contact your state health department. Silicosis is a reportable condition in many US states under state-specific public health regulations.

