

What are our priorities?

The National Institute for Occupational Safety and Health (NIOSH) Prevention through Design (PtD) Program works with partners in industry, labor, trade associations, professional organizations, and academia. The program focuses on preventing illness, injury, and fatality by “designing out” occupational hazards and risks.

What do we do?

- **Research** the effectiveness of current PtD interventions, investigate additional solutions for existing design-related challenges, and identify future research needs.
- **Educate** and motivate others to use PtD priorities and processes in collaborative design and redesign of facilities, materials, work processes, equipment and tools by:
 - Helping universities integrate PtD principles into engineering curricula.
 - Encouraging professional accreditation bodies to include PtD in their assessments.
 - Making business leaders aware of potential cost savings from PtD.
- Increase **practice** of PtD by sharing case-studies of real-life PtD solutions and encouraging stakeholders to apply them and share further.
- Encourage business, labor, government, academic, and consensus standards organizations to integrate PtD into **policy** revisions.
- Produce concise, practical PtD guides and checklists for **small businesses**, their insurers, and the publishers of building code books.
- Advocate **lifecycle sustainability** to address health and safety for all building occupants or users. The U.S. Green Building Council's *Leadership in Energy & Environmental Design* (LEED®) PtD credits now cover all occupants, including construction and operations and maintenance.

What have we accomplished?

- Completed consensus committee work to revise the ANSI/ASSP Z10 OHSMS (Occupational Health and Safety Management Standard), focusing on a new guide for smaller businesses.
- Identified a need for more thorough coverage of PtD in Electrical Systems, leading to a new educational module to supplement the other PtD educational modules. Completed and undergoing reviews.
- Collaborated with the Japan Building Association; Fairfax County Virginia Public Works department; Yuma-Pacific American Industrial Hygiene Association Chapter; Ohio Worker's Comp Bureau; an architect-engineering firm; The NIOSH Safe Green Jobs workgroup; and others.
- Taught a University of Alabama Safety Engineering Master's class on “Policy in PtD.”
- Assisted the Smithsonian in furthering their strategic plan which now includes PtD, by presenting to their engineers, architects, and managers.
- Taught two half-day workshops to dozens of Smithsonian professionals.
- Assisted the OSHA Federal Facilities office in their PtD efforts by teaching two half-day workshops with classroom and webinar students attending from 29 Federal agencies.
- Prepared and taught a 2-hour PtD workshop for training requested by OSHA Region I.
- Prepared study materials to help the Ontario Ministry of Labour in their PtD efforts.
- Worked within the federal acquisition process to include the LEED® PtD credit in requirements for a planned facility in Cincinnati.

What's next?

- Develop an annual PtD Award to highlight successes and encourage further advancement.
- Publish college and industry curricula, in:
 - Agricultural Engineering
 - Electrical Systems
 - Chemical Process Safety
 - Nanotechnology
 - Manufacturing and Industrial Engineering
- Publish a set of PtD success stories (case studies) as an example to encourage others to send in their PtD success stories.
- Publish a manuscript showing how to use a NIOSH spreadsheet to make proposals for adoption of PtD processes in a business.
- Publish a Capital Projects web site with downloadable PtD guidance for building projects.

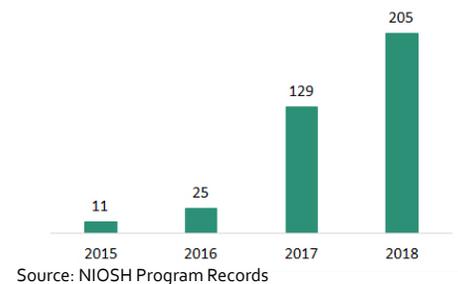
At-A-Glance

The Prevention through Design (PtD) Program's mission is to prevent or reduce occupational injuries, illnesses, and fatalities through the inclusion of prevention considerations in all designs that impact workers. This snapshot shows recent accomplishments and upcoming work.

Visits to PtD topics/publications web page



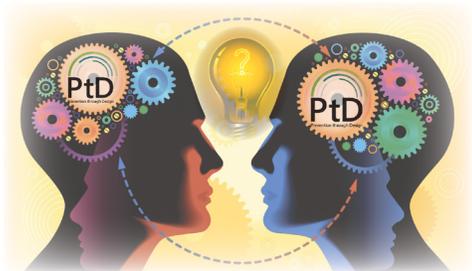
Projects using PtD LEED® Credits



LEED® Professionals Earning PtD CEU's



Collaborative Design Reviews = Smart Solutions



The ANSI/ASSP Z590.3 PtD consensus standard shows how to do PtD using collaborative design safety reviews

To learn more, visit
www.cdc.gov/niosh/topics/ptd