Control Banding Implementation: Communication, Training and Education

Workshop III
EU Conference "Perspective of Control Banding

21 - 22 June 2011
At BAuA, Dortmund, Germany

David M. Zalk, PhD, CIH

Lawrence Livermore National Laboratory, USA

Email: zalk1@llnl.gov   Phone: +1 925 422 8904

Control Banding Implementation

Can CB be better than quantitative risk assessment?

Picasso – Science and Charity (1897)

CB International Technical Group Begins

1st ICBW – London UK November 2002

WORKSHOP on CONTROL BANDING

4-5 November 2002, London, UK

First ILO Toolkit on CD
- Quick international interest
- Realization of something big
- Preparation of next steps

CB ITG Global Strategy Initiated

2nd ICBW – Cincinnati USA March 2004

Discover a Complementary Approach to Protecting Worker Health

2nd International Control Banding Workshop: Validation & Effectiveness of Control Banding

1st ITG Global Strategy
- NIOSH & OSHA keynote
- Validation research focus
- Roundtable group work

CB ITG – 5-year Review

ICOH
29th
ICOH International Congress on Occupational Health
22 - 27 March 2009
Cape Town - South Africa

1st Full Multidisciplinary
- At 29th ICOH Congress
- ITG 5-year Review Approved
- Occupational Health focus

CB ITG Work Plan 2010 – 2015 Finalized

Completing 6th ICBW Roma Italia Settembre 2010

ITG Work Plan 2010 - 2015

Key Elements of the Global Development Strategy

1) Define the different aspects of research in CB strategies

- Evaluate toolkits for their strengths & weaknesses
- Determine barriers for development & implementation
- Determine barriers for evaluation & acceptance
- Identify the most promising areas to promote CB
- Investigate & integrate skin & inhalation routes
- Perform further validation of existing toolkits
- Consider opportunities for control-focused solutions
- Expand existing toolkits for nano risk assessment
- Expand existing toolkits to address fire & explosion risks
- Explore advanced planning through better design
    * Work processes, tools, equipment, facilities, etc.

ITG Work Plan 2010 - 2015

Key Elements of the Global Development Strategy

2) Develop Toolkits to assist SMEs in Developed Countries

- Create working groups to compile Toolboxes for trades
- Create a centralized database for Toolkit access
- Create a forum to exchange ideas & build collaborations
- Build capacity for Technicians through OHLearning
- Standardize simple qualitative risk assessment process
- Establish consistent funding sources for programs

3) Develop Toolkits assisting larger industries needing experts

- Communicate Element (1) evaluation process outcomes
- Build capacity through OHLearning & trainer workshops
- Funding sources for regional Toolkit implementation
- Develop and provide guidance materials and support
- Training modules for basic risk assessment concepts

ITG Work Plan 2010 - 2015

Key Elements of the Global Development Strategy

4) Develop basic CB strategies for SMEs with no expert access

- Recruit and assign subject matter experts (SMEs)
- Twin experts from developed countries with developing
- Establish participatory action research with CB

5) Develop standardized process for control guidance sheets (CGS)

- Define key elements and minimum CGS information
- Establish standardized phrases and sentences for CGSs
- Establish CGS standardized template for:
  * Present information for standard RMM & risk communication
  * Ease of translation into multiple languages
  * Modification with new information
  * Adaptation to different media sources (print & web)
  * Adaptation to other industries, trades, or activities

ITG Work Plan 2010 - 2015

Key Elements of the Global Development Strategy

6) Develop a Regional CB Workshop framework

- Consider different target users at different levels:
  * Macro: policy maker, research institute experts
  * Meso: experts at employer/employee organizations
  * Micro: non-expert SME & larger company expert users

7) Occupational Risk Management Toolbox working groups

- Recruit SMEs and multidisciplinary representatives from
  * Different Regions
  * Various Countries
  * Related Industries
- Use CB strategies including qualitative risk assessment, control-focused solutions, & universal precautions
- Use face-to-face meetings, workshops, & teleconference

ITG Work Plan 2010 - 2015

Key Elements of the Global Development Strategy

8) Create centralized database for Toolkit/Toolbox access

- To store, maintain, access, & gain effective feedback
- Make use of social media to facilitate a CB community

9) Create easy-to-use gadgets for qualitative risk assessment process

- Develop simple guidance for basic hazard identification
- Disseminate to target audience (SMEs, universities, etc.)
- Develop CB toolkit, toolbox gadgets & smartphone 'apps'

10) Bridge IH & Occupational Physician gap for prevention

- Integrate occupational health roles through CB
- Implement the IOHA/ICOH Declaration to increase IH
- CB as risk communication for training Occ'l Physicians
- Strategy to update national regulations to include IH

ITG Work Plan 2010 - 2015

Key Elements of the Global Development Strategy

11) Develop multidisciplinary Hazard Banding framework

- Intermediate step prior to control
- Expand CB's risk communication potential
- Formalized risk-based Ergonomics, Safety, & Environmental

12) Formally expand IH profession through OHLearning potential

- Train *experts* in the basic components of CB toolkits
- Expand advanced IH expertise in developing countries
- Create intermediate Technician base globally
- Create basic CB training for SMEs for toolkit implementation
- Integrate CB into all university programs

13) Develop consistent funding sources for achieving ITG Work Plan

- Socially Responsible Companies, Microfinance Institutions, etc.

ITG 5-Year Work Plan

ITG Implementation Plan International Research Agenda

1) Chemical Control Toolkit application in developing countries

- Create tools, evaluate effectiveness, field test, translate

2) Other Application in developing countries

- Develop ORM Toolboxes, action-oriented toolkits

3) Chemical Control Toolkit applications in developed countries

- Validation studies, provide expertise, focus on trades

4) Other applications in developed countries

- Toolkits for ergonomics, safety, physical agents, etc.

5) Research to fill gaps in the Chemical Control Toolkit

- Investigate & integrate skin & inhalation exposure routes

Meine Weltanschauung

- CB has changed the way we look at IH
    * 5 years ago - proposal was to rid the term 'CB'
    * 5 years from now - CB spoken across disciplines

Meine Weltanschauung

- CB has changed the way we look at IH
    * 5 years ago - proposal was to rid the term 'CB'
    * 5 years from now - CB spoken across disciplines
- Risk assessment regulations drove CB growth
    * Global manufacturing & trade require uniformity
    * CB will band the world of risk together

Meine Weltanschauung

- CB has changed the way we look at IH
  - * 5 years ago - proposal was to rid the term 'CB'
  - * 5 years from now - CB spoken across disciplines
- Risk assessment regulations drove CB growth
  - * Global manufacturing & trade require uniformity
  - * CB will band the world of risk together
- Workers require a singular voice for prevention
  - * Different professions speak different languages
  - * CB *is* standardized global risk communication

Meine Weltanschauung

- CB has changed the way we look at IH
  * 5 years ago - proposal was to rid the term 'CB'
  * 5 years from now - CB spoken across disciplines
- Risk assessment regulations drove CB growth
  * Global manufacturing & trade require uniformity
  * CB will band the world of risk together
- Workers require a singular voice for prevention
  * Different professions speak different languages
  * CB *is* standardized global risk communication
- CB will revolutionize how we teach OSHH worldwide
  * Growing our professions in Developing Countries

Meine Weltanschauung

- CB has changed the way we look at IH
  * 5 years ago - proposal was to rid the term 'CB'
  * 5 years from now - CB spoken across disciplines
- Risk assessment regulations drove CB growth
  * Global manufacturing & trade require uniformity
  * CB will band the world of risk together
- Workers require a singular voice for prevention
  * Different professions speak different languages
  * CB *is* standardized global risk communication
- CB will revolutionize how we teach OSHH worldwide
  * Growing our professions in Developing Countries
- Hazard Banding will be at the center of all disciplines
    * Environmental & Occupational will band together

Control Banding Implementation

Picasso – Farm Workers