# El Paso COVID-19 Recovery Training

P2R CONSORTIUM

NIEHS WTP GRANT NO. U45ES019360

OCTOBER 19, 2021

P2R Consortium

## Project Objective, Target Populations

Overall objective:

To deliver actionable, site-specific training in COVID-19 mitigation strategies to vulnerable populations in El Paso County

Target populations:

- 1. Wastewater treatment workers at EI Paso Water
- 2. Workers at the University Medical Center of El Paso, including nonhealthcare workers
- 3. Businesses serviced by the El Paso Hispanic Chamber of Commerce with a special focus on small businesses with vulnerable workers

### **Detailed Project Aims**

#### Aim 1: Refinement and Deployment of a Tailored Risk Profile Tool

- Refinement of preliminary hazard classification tool
- On-site assessment of risk
- Development of tailored assessment tool

Aim 2: Development of site- and job-specific transmission mitigation plans

- > Development of tailored controls matrix and assignment of control strategies
- Development of custom transmission mitigation plans

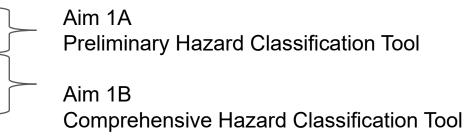
Aim 3: Delivery of site- and job-specific transmission mitigation plans

- Train workers on risk reduction strategies
- Evaluate training effectiveness

## **Detailed Project Aims**

### Aim 1: Refinement and Deployment of a Tailored Risk Profile Tool

- Refinement of preliminary hazard classification tool
- On-site assessment of risk
- Development of tailored assessment tool



Aim 2: Development of site- and job-specific transmission mitigation plans

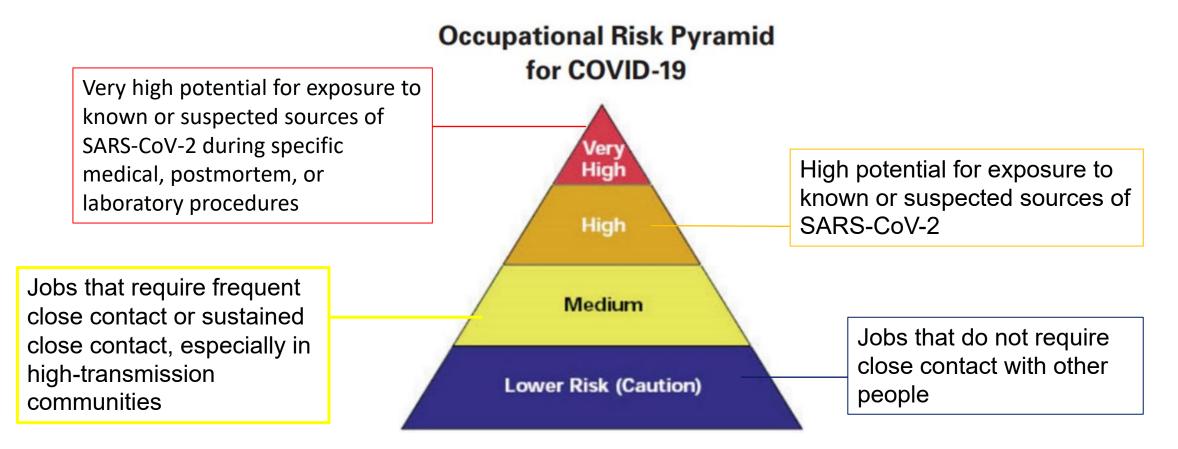
- > Development of tailored controls matrix and assignment of control strategies
- Development of custom transmission mitigation plans

Aim 3: Delivery of site- and job-specific transmission mitigation plans

- Train workers on risk reduction strategies
- Evaluate training effectiveness

## <sup>1</sup>OSHA COVID-19 Risk Classification

OSHA then divided job tasks into four potential exposure levels:

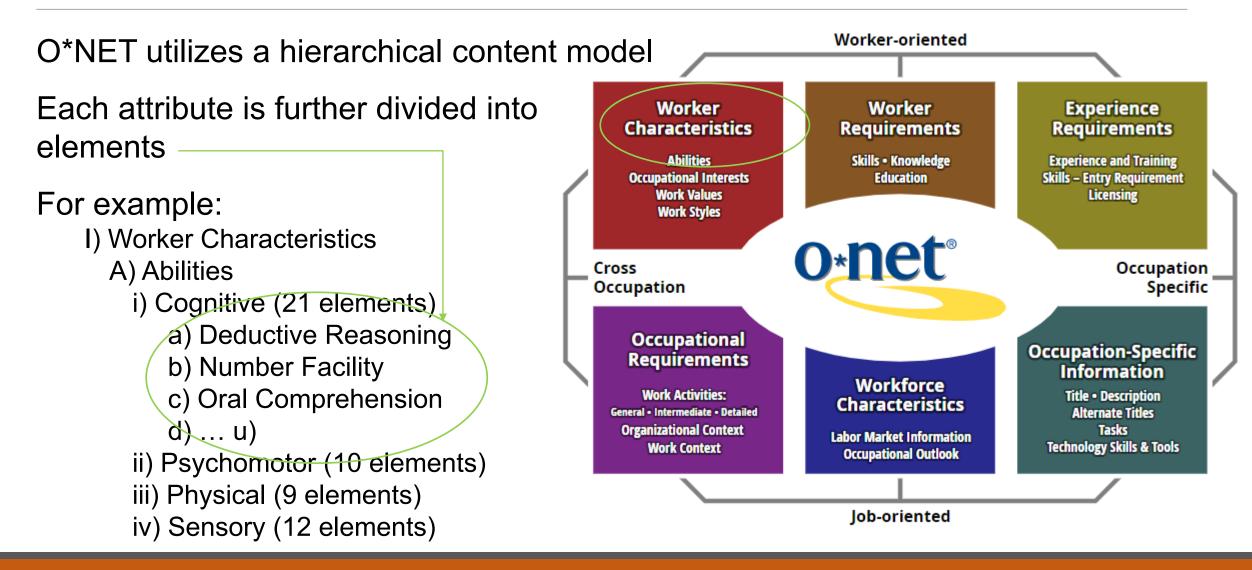


## <sup>2</sup>O\*NET Database Overview

Some researchers have utilized the Occupational Information Network (O\*NET) to assess COVID-related job exposures

- Sponsored by the U.S. Department of Labor (DOL)
- Provides detailed worker characteristics and job-related information on >950 occupations
- Data collected annually from job incumbents and occupational experts
  - Revisions periodically released
- Focuses on (1) worker knowledge, skills, and abilities and (2) job activities and tasks
- Online informational summaries with detailed data available for download
  - Website focuses on job-seekers; some study documentation limited

## **O\*NET Content Model**



## O\*NET Data

Data collection entails one to two questions per element (257) per occupation (923), with some elements reported across multiple scales

- O\*NET occupational codes are closely related to Bureau of Labor Statistics Standard Occupation Classification (SOC) codes
- Several scales used (i.e., importance, level, frequency, extent)

For example: Worker Characteristics  $\rightarrow$  Abilities  $\rightarrow$  Cognitive  $\rightarrow$  Deductive Reasoning  $\rightarrow$  The ability to apply general rules to specific problems to produce answers that make sense.

O\*NET assigns weighted scores of the importance/ level/ frequency/ extent to which workers engage with the element in question for each occupation code

## Construction of preliminary tool (Aim 1A)

- 1. Compiled all O\*NET elements
- 2. Review of detailed characteristics and descriptions of O\*NET work activities, work context, work styles, work values
- 3. Selected of reduced list of potentially hazardous job elements
- 4. Compiled elements that signal potential telecommuting
- 5. Mapped OSHA risk categories onto ranges of scales for each element

*Note:* These efforts are at the element level, not at the occupation level

## Organization of preliminary tool (Aim 1A)

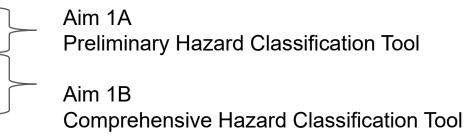
For measures of interpersonal interactions, particularly in close contact:

- 1. <u>Contact with Others</u>: How much does this job require the worker to be in contact with others in order to perform it?
- 2. <u>Physical Proximity</u>: To what extent does this job require the worker to perform tasks in close physical proximity to others?
- 3. <u>Face-to-Face Discussions</u>: How often do you have to have face-to-face discussions with individuals or teams in this job?
- 4. <u>Performing for or Working Directly with the Public</u>: How often do you perform for people or deal directly with the public?
- 5. <u>Deal with Physically Aggressive People</u>: How frequently does this job require the worker to deal with physical aggression of violent individuals?

## **Detailed Project Aims**

### Aim 1: Refinement and Deployment of a Tailored Risk Profile Tool

- Refinement of preliminary hazard classification tool
- On-site assessment of risk
- Development of tailored assessment tool



Aim 2: Development of site- and job-specific transmission mitigation plans

- > Development of tailored controls matrix and assignment of control strategies
- Development of custom transmission mitigation plans

Aim 3: Delivery of site- and job-specific transmission mitigation plans

- Train workers on risk reduction strategies
- Evaluate training effectiveness