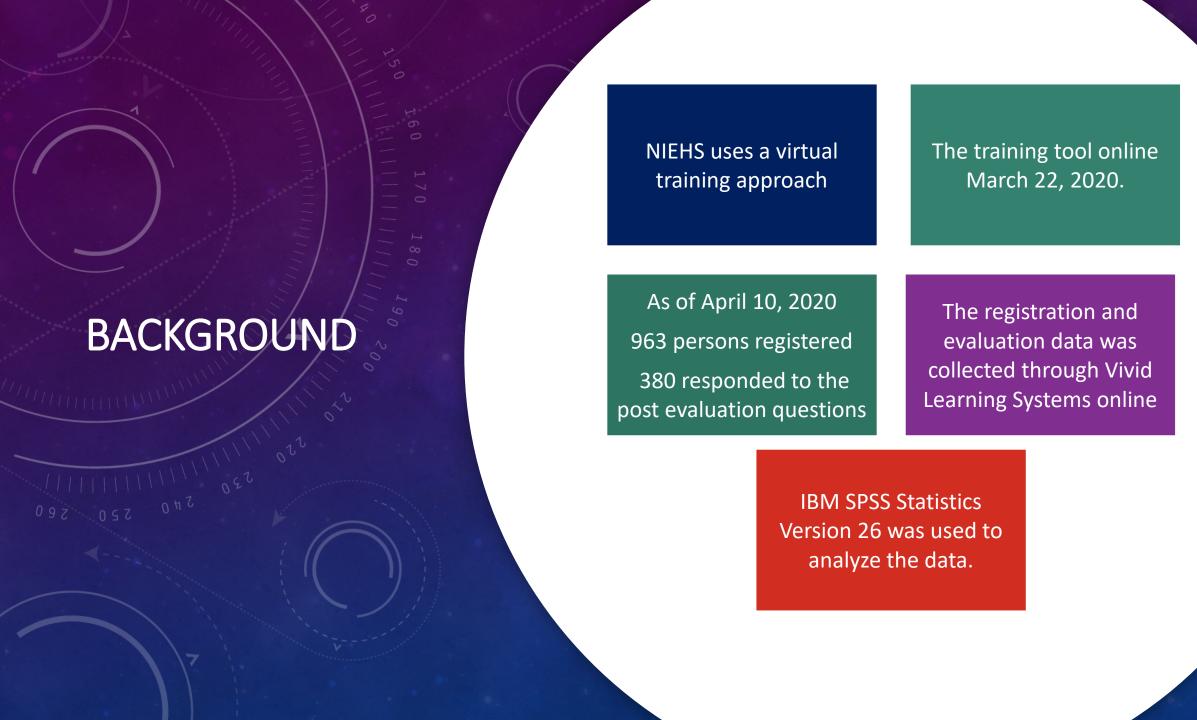
# PROTECTING YOURSELF FROM COVID-19 IN THE WORKPLACE

**EVALUATION & OUTCOMES** 

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#### Table 1: Trainee background (n=963)

	"Yes" N	"Yes" %
Have you had any previous training on infectious diseases?	543	56.4
Do you have a role in the COVID-19 response?	635	65.9
Are you an essential employee in your organization?	746	77.5

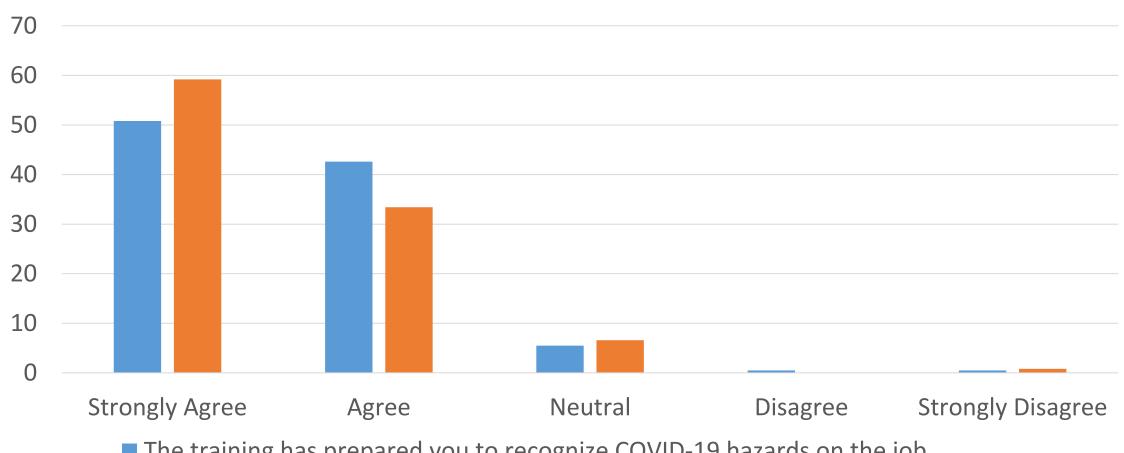
Table 2: The training has prepared me to recognize COVID-19 hazards on the job (n=380)

	N	%
Strongly Agree	193	50.8
Agree	162	42.6
Neutral	21	5.5
Disagree	2	0.5
Strongly Disagree	2	0.5

Table 3: The training has increased my knowledge on how to control COVID-19 workplace exposures (n=380)

	N	%
Strongly Agree	225	59.2
Agree	127	33.4
Neutral	25	6.6
Disagree	0	0
Strongly Disagree	3	0.8

Figure 1. Evaluation data from Tables 2 and 3 (%)



■ The training has prepared you to recognize COVID-19 hazards on the job

■ The training has increased my knowledge on how to control COVID-19 workplace

Table 4: What is your primary industry? (n=963)		
	N	%
Health care	333	34.6
State or local government	172	17.9
Telecommunications	92	9.6
Federal Government	72	7.5
Construction	39	4.0
Manufacturing	22	2.3
Food Services	19	2.0
OH&S	18	1.9
Oil & Gas	15	1.6
Education	14	1.5
Social Assistance	14	1.5
Transportation	14	1.5
Other	139	14.4

Note: Similar responses have been partially grouped together

Table 5: What is your occupation? (n=963)		
	N	%
Nurse	110	11.4
Health & Safety	108	11.2
Firefighter	70	7.3
Doctor & Physician	57	5.9
Military	32	3.3
Tower Technician	27	2.8
Administrative	12	1.2
Emergency Medical	11	1.1
Other	536	55.7

Note: Similar responses have been partially grouped together

## KIRKPATRICK EVALUATION FRAMEWORK

Level Name	Level Meaning	When is it measured?	Outcome
1-Reaction	Satisfaction with training	Immediately after training	Short term
2-Learning	Acquire intended knowledge, skills, awareness, confidence	Immediately after training	Short term
3-Behavior	Apply what was learned from training to their job	6 months-1 year	Intermediate
4-Results	Achieving the training objective(s)	>1 Year	Long Term

Contribution	Attribution
Training helped to cause outcomes	Training caused the outcomes

### DID THE TRAINING CAUSE THE OUTCOMES?

- ☐ *ATTRIBUTION* is nice, but rare, requires:
  - experiment (random assignment almost impossible in training evaluation), or
  - well-designed quasi-experimental study (control group, pre-post, high response rate)
- Arguing that the training made a CONTRIBUTION is more likely -- and also valuable
  - Use longitudinal studies, case studies, surveys, natural experiments
- ☐ Due to the emerging, rapidly evolving situation (pandemic & need for on-line training)
  - Currently only 2 evaluation questions no pre-post test, low response rate
- ☐ To increase our confidence that the training *CONTRIBUTED* to the outcomes, encourage grantees to:
  - 5 pre-post knowledge questions using "polls" in software
  - Increase response rate by requiring those questions be completed
  - 6-12 month follow-up of trainees: individual & organizational-level actions taken

## INTENDED OUTCOMES OF COVID-19 TRAINING INITIATIVE

CURRENT QUESTIONS Trainees report:  Being better prepared to recognize COVID-19 hazards at work Increased knowledge on control of COVID-19 workplace exposures  Organizational capacity to deliver training using methods adapted to social distancing  Pre-post questions on knowledge, skills, awareness, confidence, empowerment and reduced anxiety to COVID-19 and other infectious  POTENTIAL QUESTIONS  Intermediate (6 Months)  POTENTIAL QUESTIONS  POTENTIAL QUESTIONS  Integration of materials into workplace safety training of materials into workplace safety training organizational and community capacity to respond to COVID-19 and other infectious diseases of hierarchy of controls that support worker safety and infection control  National network able to respond to infectious disease events and provide high quality biosafety trainings across worker populations with exposure potential  National network able to respond to infectious disease events and provide high quality biosafety trainings across worker populations with exposure potential			
<ul> <li>Trainees report:         <ul> <li>Being better prepared to recognize COVID-19 hazards at work</li> <li>Increased knowledge on control of COVID-19 workplace exposures</li> <li>POTENTIAL QUESTIONS</li> <li>Trainers prepared to train workers</li> <li>Organizational capacity to deliver training using methods adapted to social distancing</li> <li>Pre-post questions on knowledge, empowerment and reduced anxiety</li> </ul> </li> <li>Integration of materials into workplace safety training workplace safety training of materials into workplace safety training of materials into workplace safety training community capacity to respond to COVID-19 and other infectious diseases of hierarchy of controls that support worker safety and infection control</li> <li>National network able to respond to infectious disease events and provide high quality biosafety trainings across worker populations with exposure potential</li> </ul>	Short Term (Immediate)	Intermediate (6 Months)	Long Term (>1 Year)
diseases	<ul> <li>Trainees report:</li> <li>Being better prepared to recognize COVID-19 hazards at work</li> <li>Increased knowledge on control of COVID-19 workplace exposures</li> <li>POTENTIAL QUESTIONS</li> <li>Trainers prepared to train workers</li> <li>Organizational capacity to deliver training using methods adapted to social distancing</li> <li>Pre-post questions on knowledge, skills, awareness, confidence, empowerment and reduced anxiety to COVID-19 and other infectious</li> </ul>	<ul> <li>Integration of materials into workplace safety training</li> <li>Changes in organizational practices, plans, policies, and use of hierarchy of controls that support worker safety and infection control</li> <li>National network able to respond to infectious disease events and provide high quality biosafety trainings across worker populations with exposure</li> </ul>	<ul> <li>Improved organizational and community <u>capacity to respond</u> to COVID-19 and other infectious diseases</li> <li><u>Safer workplaces</u> through enhanced worker training and work-related infection control</li> <li><u>Improved safety culture</u> in workplaces with exposure</li> </ul>

#### THANK YOU!

If you have any questions or comments, please feel free to reach me at eric.persaud@downstate.edu

You can learn more about attribution vs. contribution in a CDC presentation:

https://www.cdc.gov/dhdsp/pubs/docs/april\_2011\_cb.pdf

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