Form Approved

OMB No. xxxx-0975

Exp. Date xx/xx/201x

**2.** Gender: □ Male □ Female

**1.** Age\_\_\_\_\_\_\_

**4.** Which of the following training materials and methods does your mine use for your mine rescue team training? (check all that apply)

* Lectures
* Written materials
* Videos
* Self-guided interactive computer programs
* Demonstrations
* Hands-on training exercises
* Group exercises (e.g., games, problem solving)
* Classroom simulations (e.g., virtual reality)
* Worksite simulations
* Narrative story telling

**3.** How many years of experience do you have…

As a miner? \_\_\_\_\_\_

At your mine? \_\_\_\_\_\_

In your current job? \_\_\_\_\_\_

**5.** Do you have training or experience with any of the following? (check all that apply)

* Volunteer fire fighting
* Professional fire fighting
* Military emergency response
* EMT/Paramedic
* Mine fire brigade
* Mine rescue team
* Mine responsible person
* Evacuating a mine due to a mine emergency
* Other emergency response related training/experience:­­­­­­­­­

**6.** Have you ever experienced a virtual reality environment before today? □ No □ Yes

**7.** How often does your mine hold safety meetings (e.g., “toolbox talks”)? (check one)

* Less than once a month
* Once a month
* Once every 2 weeks
* Once a week
* Several times a week
* Daily
* Several times a day

**8.** Of all the people training with you today, how many do you interact with AT LEAST once a month outside of work and/or training?

* None
* Maybe 1 or 2
* About half
* Most
* All

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| --- | --- | --- | --- | --- | --- |
| ***Place an “X” in the appropriate box.*****On average, how often do the people in your VR team…** | Not at all | Once in a while | Sometimes | Fairly often | Frequently or always |
| **9.** See each other at work? |  |  |  |  |  |
| **10.** See each other outside of work or training? |  |  |  |  |  |
| **How often do you…** |  |  |  |  |  |
| **11.** Play video games? (e.g., computer, Xbox, Playstation) |  |  |  |  |  |
| **12.** Spend time on the computer? (e.g., work, internet, games) |  |  |  |  |  |

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| ***Place an “X” in the appropriate box.*** | Strongly Disagree | Disagree | Neither | Agree | Strongly Agree |
| **13.** Even though mine emergencies are rare, I need to be as prepared as I can. |  |  |  |  |  |
| **14.** It is important to be prepared for a mine emergency. |  |  |  |  |  |
| **15.** It is important to put in extra effort toward improving my mine’s ability to respond to an emergency. |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Place an “X” in the appropriate box.*** *Rate your confidence in the following areas, from “0” (Completely Unconfident) to “100” (Completely Confident)* | Completely Unconfident |  |  |  |  |  | Completely Confident |
| 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|  |
| How confident are you that **your simulation team** could, if required, do the following **right now** in a real mine emergency? |
| **16.** Make quick and effective decisions. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **17.** Agree on solutions to difficult problems encountered. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **18.** Readapt team strategy in response to unexpected changes in the environment. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **19.** Assist with each other’s responsibilities. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **20.** Maintain clear and efficient communication. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **21.** Monitor each other’s work to catch mistakes and provide feedback. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **22.** Maintain a level of trust and confidence in each other. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **23.** Maintain a shared understanding of each other’s responsibilities. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **24.** Maintain coordination in performing the tasks at hand. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **25.** Consider teammate input before making an action. | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|  |
| In the upcoming simulation, how confident are you that **your simulation team** can evacuate from the mine… |
| **26.** better than in your previous mine evacuation training | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **27.** almost perfect with reasonable time | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **28.** perfectly with record time | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|  |
| How confident are you that **your simulation team** could complete the following **right now** without any mistakes? |
| **29.** A mine evacuation scenario | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **30.** A mine evacuation scenario in a virtual environment | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **31.** Evacuating from a real emergency | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|  |
| How confident are you that **you** could correctly demonstrate or explain the following to a new mine rescue team member? |
| **32.** Properly don a SCSR | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **33.** Use a fire extinguisher | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **34.** Explain where the escape routes are located | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **35.** Explain the chain of command for reporting a mine emergency | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **36.** Explain your mine’s emergency response plan | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **37.** Explain your own role in the mine’s emergency response plan | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| **38.** Explain where to report in the event of a mine emergency | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

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| ***Place an “X” in the appropriate box.*** Think about the mine where you work. Rate how much you agree or disagree with each statement below.  | Strongly Disagree | Disagree | Neither  | Agree | Strongly Agree |
|  |  |  |  |  |  |
| **Mine management:** |  |  |  |  |  |
| **39.** does a good job of emphasizing emergency preparedness. |  |  |  |  |  |
| **40.** makes decisions that increase the likelihood of a successful response. |  |  |  |  |  |
| **41.** prepares for how to handle emergencies before they happen. |  |  |  |  |  |
|  |  |  |  |  |  |
| **My work crew:** |  |  |  |  |  |
| **42.** is given the support and resources we need to prepare for an emergency. |  |  |  |  |  |
| **43.** is encouraged to improve our emergency response skills and abilities. |  |  |  |  |  |
| **44.** is provided extra training opportunities for interested crew members. |  |  |  |  |  |
|  |  |  |  |  |  |
| **Our mine emergency training:** |  |  |  |  |  |
| **45.** is usually realistic and “hands-on”. |  |  |  |  |  |
| **46.** Includes practice using the equipment we would use in a real emergency. |  |  |  |  |  |
| **47.** has opportunities for constructive feedback from instructors. |  |  |  |  |  |
| **48.** does a good job of preparing us for a real emergency. |  |  |  |  |  |
|  |  |  |  |  |  |
| **At my mine:** |  |  |  |  |  |
| **49.** Production is stopped if there is even a minor chance that an emergency could happen. |  |  |  |  |  |
| **50.** Mine emergencies are thoroughly investigated no matter what delay it may cause. |  |  |  |  |  |
| **51.** Preventing a potential emergency is more important than meeting a production goal. |  |  |  |  |  |
|  |  |  |  |  |  |
| **In my work crew:** |  |  |  |  |  |
| **52.** We regularly talk about the decisions and issues that would come up during a mine emergency. |  |  |  |  |  |
| **53.** I would probably be made fun of or ridiculed if I asked questions about our emergency preparedness procedures. |  |  |  |  |  |
| **54.** We remind each other of the need to be prepared for mine emergencies. |  |  |  |  |  |