

# How Red River College Elevated Trades Training and Safety with Sensear Headsets

**Client:** Red River College, Winnipeg, Manitoba, Canada

**Industry:** Education

## Overview

In skilled trades training, hearing protection is essential—but clear instruction is just as important. At Red River College, instructors and students alike were struggling to communicate effectively in high-noise workshops, even while using standard PPE.



That changed with the adoption of Sensear's SM1P headsets, which provide **OSHA-compliant hearing protection, speech enhancement, and full situational awareness**—transforming how students learn and how instructors teach.

## The Challenge

Red River College needed a hearing protection and communication solution that would support its hands-on trades programs while meeting strict occupational safety standards.

- **OSHA Compliance Requirements:** Colleges are required to provide hearing protection when noise levels exceed 85 dB(A).
- **Noisy Environments:** Classrooms and training areas often reached 120 dB(A), making verbal instruction difficult.
- **Muffled or Missed Communication:** Students struggled to hear safety warnings or task instructions.
- **Disrupted Learning:** Instructors had to repeat themselves or pause training to be understood.
- **Safety Risks:** Lack of environmental awareness increased the chances of accidents involving alarms or moving machinery.

As trade education programs pushed to meet modern safety and communication standards, Red River College saw the need for advanced headsets that could protect hearing, enable clear instruction, and enhance training outcomes in high-noise learning environments.



## The Solution

Red River College implemented Sensear's SM1P high-noise communication headsets across its trade programs. These headsets suppress background noise to safe levels (max 82 dB(A)) while allowing clear two-way communication, even in 120 dB(A) environments. The solution also supported hands-free group training, Bluetooth® audio streaming, and enhanced situational awareness—helping both teachers and students stay connected and safe.

## What Made the Difference:

- **Full Situational Awareness** while using Two-way radios or Bluetooth® devices
- **Clear Face-To-Face Conversation** without removing PPE
- **FM Short-Range Communication**—ideal for 1:1 comms within 50 meters
- **Rugged, Over-Ear Design** built for harsh field conditions
- **Future-Ready** planning for IS headset deployment in hazardous zones

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## The Results

Since introducing Sensear:

- **Improved Safety:** Students and staff are better protected from hazardous noise while remaining aware of their environment.
- **Better Communication:** Instructors can give clear instructions without shouting or stopping machinery.
- **More Effective Training:** Clear, real-time audio improves the pace and quality of hands-on learning.
- **High Adoption:** The headsets are widely accepted by both instructors and students due to ease of use and comfort.

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## Looking Ahead

With trade programs expanding hands-on instruction in high-noise environments, Sensear's advanced communication headsets are becoming essential training tools. From noisy workshops to safety-critical demonstrations, students and instructors now operate with clarity, protection, and confidence.

## Conclusion

Whether running a high-decibel machining or leading a safety-focused demonstration-

**Sensear makes it possible.**

Sensear headsets empower students and teachers to train smarter, safer, and more effectively in real-world environments.

“Sensear headsets have proved to be of immense value during this pandemic and have helped us to accelerate our training while practicing necessary hygiene.”

— Red River College,  
Winnipeg, MB, Canada

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