



Wearable Technology

Information to help you understand the usage of wearable technology sensors and how to capitalize on your experience provided by Zurich NA, USA.

Introduction

Zurich NA, USA has engaged Longitude6 to provide you, their client, with one of the worlds most advanced wearable sensor technologies available, to assist your company in analyzing jobs and tasks within your business.

This technology will provide video and data analysis for every job you assess, gaining insight into the risks of the jobs and tasks and their contributing risk factors.

In combination with the dynamic experience of using the technology at your workplace, Longitude6 will support you through analysis of the data to provide you with an Executive Report and individual risk assessment reports. These reports will provide you guidance on observations and suggested recommendations on how to address task and musculoskeletal risks within your workplace, in a practical and priority-based manner.

Benefits

Longitude6 will have the system delivered to you, provide a training session, then accompany you virtually as you undertake the assessments yourself with your teams.

With the technology provided by Zurich NA USA in partnership with Longitude6, you will be able to do assessments across your business, not only to assess potential risk movements and understand the contributing factors, but also to be able to:

- Conduct comparison assessments (pre and post) on different equipment that may reduce the risk of a task - support decisions on investment or equipment changes
- Comparisons of differing manual handling techniques in the way tasks are performed
- Planning how to adjust the work shift or job rotation in your business
- Building a library of the jobs/task in your business to assist with return-to-work planning, injury management and rehabilitation of employees after an injury

During the period of your training and the use of the technology, you will be assisted to understand all the potential assessments you could undertake and the benefits for you, your people and the business.

Wearable Technology and How it Works

This technology uses non-invasive, wireless sensors attached to the body in safe tailored straps and holders to five areas of the body. The person assessing the participant will use the iPad provided with the sensors.

You will nominate participants from within the business who normally do the job tasks you wish to assess. The workers can be de-identified through blurring their face for privacy if preferred and there is no need to capture participant details, such as names and gender, as the technology and assessments is not about the person conducting the job. Rather, it is about assessing the demands and risks to a body when doing specific tasks.

The assessments are undertaken whilst participants do their normal work tasks. Up to five minutes of capture time for each assessment is normally more than enough time. During the assessment, the worker will place up to five small wearable sensors on the participants neck, head, lower back and upper arms to record range of movement along with other important factors. The assessor will video the participant as part of the assessment, which provides important visual information that synchronizes with the data captured on the body movements recorded by the sensors.

The data received through the devices will provide a risk score for each task or activity, along with indication of which areas of the body are impacted with each movement. The results will be immediately available for you to review. Longitude6 will also provide feedback on each assessment including guidance on possible scenarios to gather pre and post data.

What Happens with the Data

Following the assessment, Longitude6 will collate the data and results gathered and present these back to Zurich NA, USA who will, in turn, present back to you and your organization.

Longitude6 and our partners adhere to all applicable privacy and personal information regulatory requirements across the USA, Australia and Europe. We take all reasonable precautions to maintain the confidentiality of participant and organization identity and the privacy of your information. The data/images gathered during the project will be kept indefinitely unless your company provide a request otherwise.

We will not use or publish the data or assessments for any other purpose except to support you and your business, along with Zurich NA USA.

Precautions

While this technology is a very low-grade Bluetooth enabled device, it is always prudent to take extra care with people who have known conditions especially fitted medical devices. This could apply to employees with any known medical conditions that may be impacted by taking part in the assessments in which case they should not participate until appropriate medical advice has been obtained, i.e., wearing an implanted electronic device (cardiac pacemaker), pregnancy or other conditions.

An employee with an injury will not be able to participate in the trial due to the risk of further exacerbation of their injury, or the risk of injury to others during the task.

Other Information

If someone you have asked to take part is hesitant or reluctant to participate, we recommend engaging with another team member. Usually, most people really enjoy themselves and the experience with helping their employer with possible change to ensure the working environment is a safer place for all.

Remember, you are assessing the job task, not the individual. We will talk more about these points when we do our training session with you.

Finally, on the day of the assessment you will be required to have each worker who is being assessed sign a Participant Consent Agreement.

We know you will enjoy the use of the technology and the information it will provide your organization. We look forward to working with you in this wonderful opportunity to help your business by providing this world class technology for your use.

Contact us at info@longitude6.com

