

Do you need to know more about Machine Safety?

Check out our Machine Safety Offers



Machine Safety Review

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Machine Safety Review

One day review to provide an assessment of your site and a road map to move forward.

Poorly operated and maintained machinery is a leading cause of serious harm to workers.

Machine safety is a complex area where people, process and plant all contribute to the risks carried in your business. Do you know what your issues are, how much risk you have and how you should start to address this risk?

Our **Machine Safety Review** is designed to help you to assess your risk and make your operations safer.

Who we are

TEG Risk & Sustainability Services (TEG Risk) is a specialist machine safety consultancy. We have risk assessed more than 10,000 machines and we've seen it all - from the very worst to the very best.

We bring this expertise with us when we visit your site to undertake a machine safety review. In most cases, with a one day assessment we can tell you where your site is at, and then provide a road map to move forward.

WHAT WE LOOK AT DURING THE MACHINE SAFETY REVIEW

We are looking at all the factors that influence machine safety. During our one day visit we carry out a high-level review to highlight the key areas of focus for your organisation.

Machine safety is only achieved when the key aspects of people, process and plant have been reviewed and improved using the systems management approach of; plan, do, check and act. This is an ongoing process of continuous improvement.



Machine Safety Review

What you get

You will get a summary report providing an overview of your machine safety status. We will also provide a road map/action plan recommending the most sustainable path forward. We will present this to you online via either MS Teams or Zoom.

What we need from you

We need a day on site, and will review some of your processes and documentation. We will take photos of key plant observations to relay back to you in the report. We also require access to those people in your organisation that influence, or are impacted by, machine safety.

NOTE: Our machine safety review determines the key equipment risk profile and key compliance issues. A detailed guarding audit of all your equipment is not included in this review. If you would like a guarding audit, we can provide risk assessment services e.g. our summary machine risk assessment.

Contact us at info@tegrisk.co.nz for more information.



COST:

\$2,950.00 + GST

(inclusive of travel expenses within New Zealand).

REGISTER NOW >

Keen to sign up?

We'd love to hear from you.

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Or call Hamish Baker
on (+64) 021 910 939

www.tegrisk.co.nz



Reliability Engineering Review

What is it?

- **High-level reliability engineering review** to understand how your business supports and manages the performance of your equipment and the associated risks, providing recommendations for improvement
- **One day onsite review with report/improvement plan to follow***

The single biggest issue our clients face is not knowing what to focus on first when improving equipment performance or reducing associated costs – every organisation has multiple competing priorities.

How do you choose when you have a lot of people making suggestions?

Because your equipment doesn't operate in isolation our review takes a broad overview looking at all aspects contributing to how your equipment is performing, helping you focus in on where to start.



Who is it for?

This review is designed for managers of manufacturing companies wanting to improve performance but not sure where to start.

If you are frustrated at the progress of current improvement plans, or your current plans are not translating into the predicted results, chances are your current priorities aren't quite right. We can help you with that.



What you'll learn

Most companies don't know how much different issues contribute to equipment cost or performance, or which ones currently contribute the most to the losses. Some of these topics are direct contributors to profit, while others are enablers – allowing other areas to function more efficiently. Without setting up the enablers, improvements in the other subject areas will have limited results.

Our review has a set of questions for each topic which then allocates a score. This then shows which have the largest gap and can add the most value for the time invested.



What you'll learn?

Managing equipment means balancing finance and resource into all aspects impacting equipment performance.

THE TOPICS WE COVER IN THE REVIEW INCLUDE:

- What is being done to ensure the equipment is lasting as long as possible
- How parts and equipment are stored to prevent damage and deterioration before installation
- Quality of installation (on site personnel and contractors)
- The process of determining the strategies for looking after and monitoring equipment
- Efficient repairs to get the plant up and running as soon as possible
- The process of investigating causes of failure and determining the most suitable solutions
- How information regarding the equipment is managed
- Capturing and analysing financial information regarding labour and equipment costs
- Capturing and analysing equipment performance information regarding availability, speed and quality
- Leadership in reliability and equipment management to develop inhouse expertise (such as clear objectives, targets, review of performance to plan, training and mentoring)



Reliability Engineering Review



Turning the review into action

Within each review topic, there are multiple issues affecting the performance of that topic. How do you choose what to work on, unless you know how much each contributes?

Our team at TEG Risk has vast experience in equipment management giving us the ability to show you the things which contribute to each of the topics, as well as the most common mistakes and omissions.

While larger companies can have dedicated resources to each topic, smaller companies have to spread resource over multiple areas - making prioritisation for people even more important. Many companies can give you ideas to work on and will wish you luck in addressing them. That's not our approach.

We will show you WHY each issue needs to be prioritised, and HOW to address them.

This review can then be used as a benchmarking tool to show the site progress from year to year.



How is the review undertaken?

This review takes place onsite and will take one day depending on the size of the site. The review then shows which topics to focus on and will lead into the development of a detailed and focussed improvement plan customised to the objectives for your site.



COST:

ONE DAY REVIEW: \$3,950.00 + GST

(inclusive of travel expenses within New Zealand).

*POA - Large/complex or multisite industrial facilities may require additional time on site.

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Keen to set up a review?

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Machine Safety Training for Managers

One-day onsite interactive training course

- This course provides machine safety training for managers in your organisation. It is and customised to suit the machinery used in your operations
- One-day onsite interactive training course

This training is ideal for organisations that have started their machine safety journey and know about "guarding" but are not experts yet. A knowledge of risk assessment as it relates to machinery is useful but not necessary.

We share our experience and anecdotes as we run through the technical standards and our mental algorithm on how to apply the tools, so they work for you.

We've risk-assessed over 10,000 machines – most of them legacy plant that does a great job and produces what is needed but may not be the safest as far as Worksafe is concerned. It's a compliance area that is technical and more complex than people appreciate, and we're delighted to be able to share our expertise with you.

We have distilled our knowledge down to what matters and packaged it up into this one-day (7-hour) training course.

Who is it for?

This one day course is for those in your management team with roles that can influence machine safety. This includes Engineers, Health and Safety Managers, Operations Managers, those responsible for procurement, and Human Resource Managers.

It's an opportunity to upskill these managers in a critical area of your business.

It's ideal for engineers with good mechanical and electrical knowledge but who need to know about the tools to apply to make machinery safe and compliant. It will answer those questions you might have and will help those that make decisions relating to machinery risk.

What you'll learn?

YOU'LL LEARN:

- How to understand the legal and standards framework and how you can utilise this to get the answers and results you want
- About the most common issues that trip people up; all that experience assessing 10,000 machines helps us to condense the 900 pages of AS/NZS 4024 down into the key things of interest, and importance to you
- How to complete a machine risk assessment and understand what it means and what you have written down
- How to understand "residual risk" and what that means to you and your organisation
- How to know when enough safety is in place

NOTE: We don't cover technical aspects like safety circuits or functional safety or provide detailed coverage of the standards in this training.

If you're interested in learning more about these areas feel free to discuss options with one of our Certified Functional Safety Professionals.

Contact us at: info@tegrisk.co.nz



Machine Safety Training for Managers

Benefits of the training

This training will ensure more people can contribute to reducing machine safety risks across your business and that you have managers who understand the machine safety risks that they are accepting.

How is the training delivered?

This is a seven-hour (one day) training course delivered in person at your place. Discussion and sharing are the keys to success and for best results we limit attendance to 12 people per session.

NOTE: This training is not for machine safety experts and those that operate the machinery. We offer a two-hour onsite machine safety awareness course for these personnel.

Contact us at info@tegrisk.co.nz for more information.



COST:

\$3,950.00 + GST

(inclusive of travel expenses within New Zealand).
Maximum of 12 people.

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Machine Safety Overview Training

Two hour on site training course (or one hour video presentation)

- **Machine safety awareness training** focused on the key engineering requirements of the machine safety standards (AS/NZS 4024:2014) and supporting standards

We use our extensive experience of these safety standards to condense 900 pages of AS/NZS 4024 down into a short two-hour presentation highlighting the key things you need to know.

You will leave this training session better able to identify machine safety issues and more prepared to fix them. Your solutions will be more appropriate to the needs of operation and maintenance, risks will be better addressed and ultimately you will see less rework of poor designs.



Who is it for?

Designed for:

- Engineers
- Health and safety personnel - e.g. representatives and operational staff

This course is for those most closely involved with the machinery that may need to provide input or take action on any proposed machinery improvements.



What you'll learn?

You'll learn how to spot if something doesn't look right, or safe, in your day-to-day interactions with machinery. You will learn that machine guarding should be designed according to recognised standards and not just any old sheet metal will do.

The training is interactive, helping you learn what you need to know, where to look for the information, and how to use it.

WE COVER THE MOST COMMON STANDARDS USED INCLUDING:

- The legal and guidance document framework – how the standards work together and the basic legislative requirements
- Design management – managing the process so the solutions chosen will be the right solution for those using the machine
- Fixed and movable guarding – how to choose the right guard for your application and how they need to be made
- Interlocking devices – how to choose the correct interlock design for your situation
- Emergency stops – key requirements and common misuse of emergency stops
- Gaps and reach distances – how to identify guard sizes and gaps to prevent reaching around and through
- Crush distances – helping make the machines more inherently safe by eliminating and reducing hazards
- Functional safety design – an overview of the key requirements of selecting and installing safety related parts for the system, and why you need to carefully choose designers and installers.



Machine Safety Overview Training

Benefits of the training

You'll be confident that when you see something that doesn't look right. You will be able to refer to the right standards to ensure any simple upgrades are done right and are compliant first time. If you don't automatically know what's required to put things right, you will know where to look in the standards to find out.

How is the training delivered?

This two-hour training is delivered to you on site. If it's more convenient and you have multiple sites to cover, we can also deliver the training via a one-hour online presentation, viewed at your convenience.

NOTE: This course is not a detailed legislation review as it relates to machine safety and does not cover non-engineering related topics such as Standard Operating Procedures, Lock Out Tag Out, and machine specific safety training.



COST:

ONSITE TRAINING: \$3,950.00 + GST

Covers one day on site and up to three sessions in a day.
Maximum of 12 people.
(inclusive of travel expenses within New Zealand).

TRAINING VIDEO: \$500.00 + GST*

* Indicative per site but price on application subject to organisation size and structure.

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