



Advanced AS/NZS 4024.1 Machine Safety Training

In an industry with ever increasing focus on machine safety in the workplace, understanding your responsibilities and knowing how to determine machine safety is more important than ever!

What are my responsibilities?

How do I know if my machines are / are not safe?

How do I make my machines safe if they are not already?

Spend 3 days in an AS/NZS 4024.1 Advanced Machine Safety seminar alongside others from industries similar to yourself and hosted by a specialist in Machine Safety and the relevant standards. Learn about the latest revisions to AS/NZS 4024.1 and cover the below topics:

- > Fault exclusion
- > Good design principles to minimise attempts to defeat
- > Safety distance calculation for presence sensing safety devices
- > The European vs Australian/ New Zealand standards hierarchy
- > How Performance Levels verses Categories affect your machine safety design decisions

Date: 10th , 11th & 12th November, 2020

Venue: Remtron Albury
444 Wilson Street, Albury NSW 2640

RSVP: Friday 23rd October 2020 to alburysales@remtron.com.au

N.B. Date & Venue may changed due to COVID-19

SICK Item No.	Description	Price (excl.GST)
1614450	AS4024 (3 Day) Safety Training	\$1,475.00

Your Benefit

- Know your responsibilities
- Know where to start and what steps to take in achieving compliance with AS/NZS 4024.1
- Network with others in similar industries
- Get to know the experts and where to go for help
- Improve your knowledge of and skill in machine safety

Program Overview

- AS/NZS 4024.1 legal requirements
- Identifying and assessment of risks
- AS/NZS 4024.1:2014 - how has it changed?
- Risk estimation, evaluation and reduction process
- Report writing process
- Hierarchy of machine guarding
- European machine directive, what does it mean?
- Device installation requirements & guidelines
- Programmable safety devices, overview & demonstration

3 Day Training Agenda

Day 1

- Introduction.
- Legislation and how it affects you.
- Principles of machine related safety according to AS/NZS 4024.1 2014.
- Acceptability of safety principles in EN954-1 and AS/NZS 4021.1 2014 (Cat. vs PL).
- Functional Safety in accordance with EN ISO 13849-1 and relative AS/NZS 4024.1 2014 provisions.
- Changes to AS 4024.1 2006 which brought about AS/NZS 4024.1 2014.
- Explanation of the structure and hierarchy of European/international and Australian/New Zealand standards.

Day 2

- Introduction to and the meaning of 'risk assessment' and associated relevant standards.
- Requirements and objectives of a risk assessment. How to gather and document information. Tools available.
- Definition of 'hazard' and 'hazardous point' with practical examples.
- Assignment of measures and solutions to be implemented as a result of the risk assessment.
- Evaluation and categorisation of safety related parts of control systems (SRPCS) to appropriate Category (Cat.), Performance Level (PL) and Safety Integrity Level (SIL).
- Possible solutions to achieve the necessary risk reduction.

Day 3

- Safety interlock requirements and installation. Discussion on ISO 14118 compared to AS/NZS 4024.1603 2014. Requirements of ISO 14119 regarding actuator coding levels.
- Light Curtain and Safety Laser Scanner requirements and installation including practical testing with a stop time meter to calculate the appropriate safety distance.
- E-stop requirements and installation.
- Safety controllers – their use, capabilities and suitable applications.
- Developing a Safety Concept and a Safety Requirements Specification (SRS) and working through a safety performance calculation.
- Introduction to SISTEMA, Safety Integrity Software Tool for the Evaluation of Machinery Applications
- Discussion on safety applications relevant to your business

Please note: This agenda may be subject to change