S SCHMERSAL THE DNA OF SAFETY

OCTOBER 2021

RISKY BUSINESS - THE RISK ASSESSMENT PROCESS

Performing a risk analysis is a crucial step for machine safeguarding, and the first step in a risk assessment, as it identifies the machine hazards and their associated risks. Part of the analysis is understanding how the machine operates and the required interactions which takes place between personnel and the machine. This information will help in determining dangerous parts, areas and situations with the equipment, which is considered the hazard.

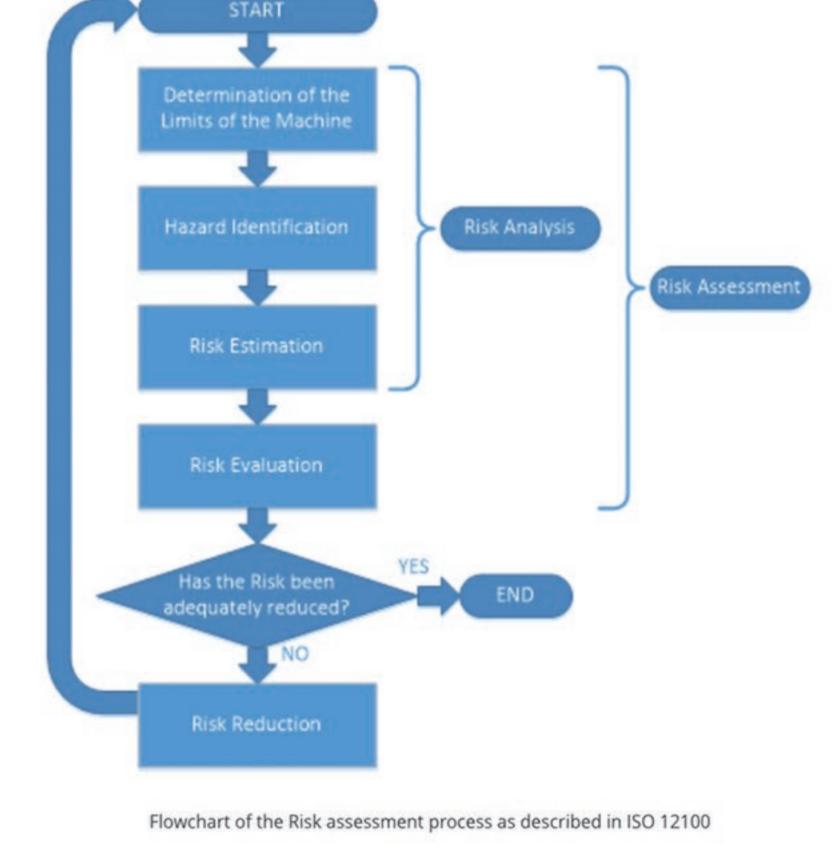
Next, the risk, which is the possibility and consequences of exposure to this hazard, can be documented. Part of the risk documentation is the calculation of a Hazard Rating Number or HRN. The HRN is used to quantify a risk so that it can be prioritized and so that a baseline is created. This baseline is used to estimate the effectiveness of control measures selected to remediate the identified risk.

An evaluation of the HRN is then performed to decide if further steps are needed to reduce the risk or not. The risk analysis and this evaluation of the HRN is the risk assessment process.

There are many different approaches and HRN parameters within the industry for guidance in the risk assessment procedure. The main goal is to make sure a methodology is selected or created which is effective for the machine(s) being assessed and that it is consistent throughout the company.

Risk assessment is one element involved in creating a machine safety mindset to provide a safe

working environment and successful safety culture.



UPCOMING MACHINE SAFETY WEBINAR



Risk assessments are the starting point to safeguarding initiative. any machine Identifying the risks is the first step to abating them. But many individuals rely on

Methods for Machine Safety and

Cobots"

requires risk assessment or use a company standard that may not follow current applicable standards. Join Peter Rigakos as he explains methods for creating a risk assessment program for EHS, engineering design, and maintenance staff in your company.

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their understanding of what equipment

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 Date: October 20, 2021 Time: 2 PM Eastern / 11 AM Pacific Presenter: Peter Rigakos EHSToday NED - Machine Design. Hosted by: www.schmersalusa.com Date: October 20, 2021 Time: 2 PM Eastern

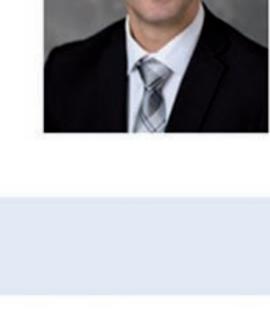
RISK ASSESSMENT METHODS FOR

MACHINE SAFETY AND COBOTS

Presenter: Peter Rigakos

Duration: 1 hour

11 AM Pacific





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HAZARD RATING NUMBER

In this short video Devin Murray discusses Risk Assessment, which allows you to identify hazards and risks associated

Assessment

equipment.

norms.

VIDEO:

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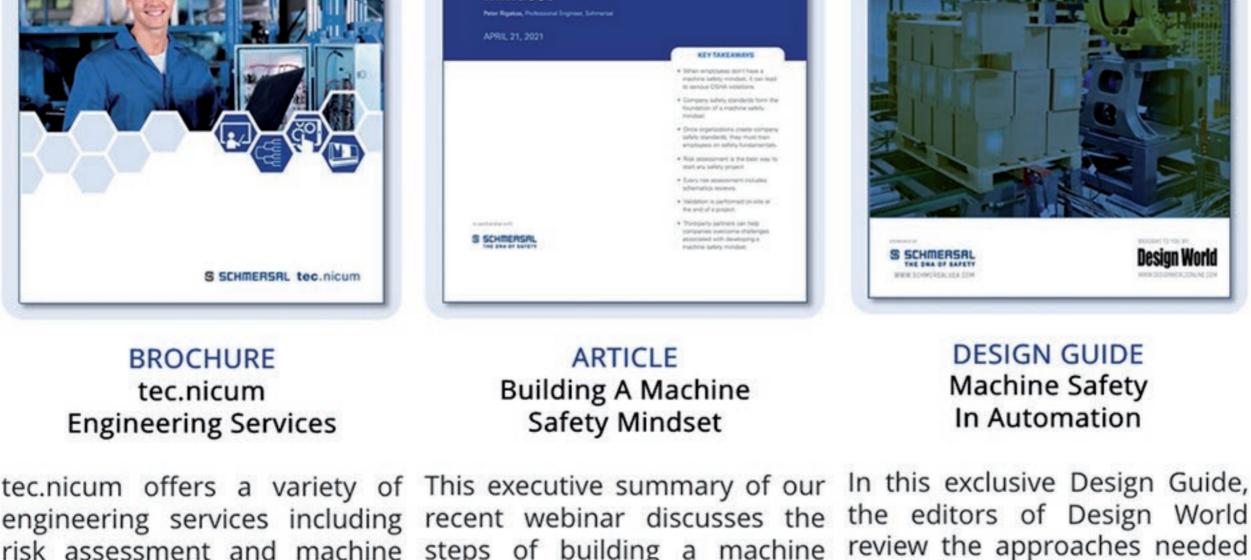


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risk assessment and machine steps of building a machine safety training courses. We also safety mindset to achieve a company uniform Training for General Industry machine guarding and safety

Question: What is the difference between a task-based and a hazardbased risk assessment?

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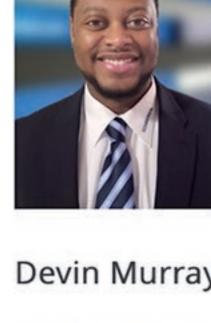
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to assess a machine's required



Devin Murray

TUV Functional

Safety Engineer

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Answer: A task-based assessment looks at the individual interactions with

the machine and identifies hazards and risks for each action. An operator loading raw material into the machine would be one example of a task to assess. A hazard-based assessment is more general and looks at the equipment as

a whole. Overall hazards of the machine and its environment are considered, such as tripping, noise, and exposed entrapment hazards. Both the task-based and hazard-based assessment are required and

complement each other to create an overall picture of the hazards and

risks associated with the machine. Do you have a question? Ask Devin: dmurray@schmersal.com

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