

SUMMER APPRENTICESHIP : SETTING UP AN AUTOMATIC DYNAMIC RISK MANAGEMENT SYSTEM

KEY WORDS OF ASSIGNMENT:

- Database
- Visualisation
- RA and SOP documents

CONTENT OF ASSIGNMENT:

The student will be asked to automate and improve the DRBS (Dynamisch Risico BeheersingsSysteem – dynamic risk management system) of the hot strip mill. The DRBS is an overview of all SOP's (Standard Operating Procedures) and risk analysis we (should) have, based on themes.

INVENTARIS RISICOANALYSES WWA								
Volg Nr. DRBS	Thema's van het Dynamisch RisicoBeheerSysteem	Aantal Risicoanalyses			Planning: updaten & nieuw			
		Beschik-baar	≥ 3 jaar oud	Nog te maken	Aantal 2020			
					Q1	Q2	Q3	C
1. Onderneming								
1.1	Verkeersplan: (incl. spoorwegverkeer, vorkheftruckverkeer,...)							
1.3	Ongewone operaties	12	0	1				
1.2 & 1.5	KB Brandpreventie op de werkplaatsen (28/03/2014) & Noodplan	1	0	1				
1.7	Psychosociale risico's (KB 10/04/2014)	3	0	0				
1.8.2.	Grote risico's in de afdeling (valgevaar, knelling, gas, transport, elektrocutie)	21	0	2				
	Grote risico's in de afdeling (valgevaar, knelling, gas, transport, elektrocutie) WPW	1	0	0				
1.9	Gezondheidsaspecten (middelengebruik & roken op het werk)							
2. Installaties & Arbeidsmiddelen								
2.2	Risicoanalyse MACHINES en installaties	51	4					
2.2.1	Risicoanalyse installaties; Proces-risicoanalyses: HAZOP, FMEA, SWIFT..... (o.a. voor SEVESO SWA-VR)	0						
KB Arbeidsmiddelen								
2.3	KB ArbeidsMiddelen Algemeen: analyse bestaande installaties (incl. 2.1 indienstrame verslagen PEB)							
	Veiligheidssignalering							
2.9.1	Veiligheidssignalering - Nooduitgangen							
2.9.2	Veiligheidssignalering - Leidingen gevaarlijke stoffen en preparaten							
2.11	Mobiele arbeidsmiddelen							

Currently, this is done manually, which results in the overview being hard to make, difficult to use and almost always outdated. In short, it's almost impossible to use this as a base to assess and improve our HIRA system.

The task of the student is to automate the process as much as possible: get all documents from our WebDrive dynamically, link SOP's and RA's automatically, prioritise the review process, give a clear overview of everything (in Excel or a program of choice), and maybe find all missing SOP/RA from data in SAP.

OBJECTIVES:

- Collect and order SOP/RA from WebDrive
- Link SOP's and RA's
- Create a good visual overview of the risk management system
- Find missing SOP/RA

EXPECTED COMPETENCES (KEY WORDS):

- Databases
- Visualisation
- Basic programming

NUMBER OF STUDENTS:

- 1

TARGET GROUP : BACHELOR/MASTER/ ... & SPECIALIZATION(S):

- Students with IT affinity, finished 2nd bachelor (and later)

LOCATION:

- Hot strip mill, ArcelorMittal Gent

PROMOTORS:

- Industrial : Arn De Grauwe

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