

Datafile 4 - External and internal triggers for change of the MHC ETP

Nr	ETP Subject matter	Change 2003 –	2008 –	2014 –	2018
1	Job Requirements	[HBO/Acad] [HVK/Moshe]	[Same]		2018 Swuste&Sillem Moshe evaluation
2	General legislation		PED, ATEX	AWB WAHHS	
3	Special Legislation	BRZO'99	[ - - - - - ARIE - - - - - ]		BRZO2015, RRZO2016
4	Cooperation		LAT GIR RUD	BRZO+	
5	How companies work	[same]			
6	Safety Management System	BRZO'99 Elements #1-7	ISO 31000:2009 Elements #a-h	Seveso III,2012 Elements #i-vii	
7	Process installations		MOOIS Maintenance	Bio-technology Software Architecture	KPI Ageing
8	Dangerous chemicals		Fuels quantity GHS REACH CLP		
9	Learning from accidents	[same]	[new accidents]		
10	Learning from practice	EC joint visits			BES islands
11	Coaching	[Duo]	[Accounts]	[Peer support]	
12	Safety Inspection Approach	AVRIM2	NIVRIM	NIM	NIM2 [LBR]
13	Reporting System	Bundled set	Joint GIR report		
14	Appraisal/Ranking			GIR ranking	MHC Team reviews
15	Public Information				Joint public summary
16	Negotiations	CPR-20 /RIB	NTA-8620,	PGS-6/-15	
17	Law Enforcement	Small fines / Criminal law		Large fines / Administrative law	
18	Create Safety Knowledge	MHC Annual report	LFA meetings	Storybuilder	Theses, Publications
19	Regulator organisation	Regional teams	Directorate		Programme structure
21	Professional standards	Uniform inspections Use SMS appraisal guidelines Auditor role	Establish joint ICT/knowledge platform System vs Measures inspections/5 year cycle Risk based inspection Cooperation between inspection partners NIM inspection leader Stronger law enforcement tools Inspection must continue		ISO-19011, 2018
22	ETP Change process	[same]	[same]	Less theory - more practice Less company input – more SZW input Restructured around SMS Updated accident cases	
23	Evaluation practice internal external	2003 Execution performance BTO,2007 KPMG,2003	2008 Hulst-Ouwerkerk- Criminal law enforcement weakness 2018 Wingerde et al-Administrative law enforcement burden 2012 Ale&Mertens 2013 Lieshout 2013 contents evaluation	2014 Execution performance 2017 contents/teaching style evaluation 2015 Veld 2017 Swuste& Reniers	2018 Execution performance 2018 Pronk et al
24	Educational objectives		Less theory Focus on risk assessment Non standard conditions Poor design and supervision Use 'what went wrong' Less statistical theory Include kpi, ageing, plant layout and software archit Include culture, procedures and language issues Companies to continuously assess risks Less company input Elaborate on risk management Requirements & compliance Learn from practice Elaborate on process safety Elaborate on toolbox		
25	Quality of education	Adopt auditor style		Reduce intro part Plan earlier after hiring More interactive Change teaching style and e-learning Use info from inspection practice Introduce examination	Structure along SMS elements Joint inspection partner training More interactive Change teaching style and e-learning Use info from inspection practice Introduce examination