Technical Document

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1.0 Summary

1.1 Overview

Industry 5.0 is made possible through deliberately focusing on research and innovation as well as putting technology at the forefront of the transition. It is characterized as being defined by a purposefulness that is more than just manufacturing goods for profit. The three central tenets of Industry 5.0 are: human-centricity, sustainability, and resilience.

2.0 Procedure One

A human-centred approach prioritises human needs over the production process. Manufacturers must identify what technology can do for the workers, and address how technology can adapt to the needs of the worker rather than the other way around. It is important that technology does not affect issues such as privacy and autonomy.

Table 1 Anonymous 28

Step	Variable	Unit	Goal	Range	Category	Remarks
Step 1	Mixing	N/A	Not Determined		TBD	
	Done Mixing	g/L	10	9.0-15.0	Key	
Step 2	Adding Ingredient A	kg/kg	0.13	TBD	Critical	Higher Volume
	Done Adding	g/L	1	0.1-10	TBD	
	Mixing Rate	RPM	Not Determined		TBD	

Step 3	Temperature	℃	1.0-20.0	TBD	
	Time	Hour	≤10	TBD	
Step 4	Filter Type	Process	It depends on the condition		
	Load	L/m^2	≤100	Critical	
Step 5	Filter Type	Process	It depends on the condition		
	Load	L/m^2	≤1000	TBD	
	Slow down	Process	Tuning Pump	TBD	
Step 6	Final Step	Process	Restart System	TBD	
	Temperature	℃	-1 -23	TBD	
Notes: A.Mixing carefully B. Test after mixing					

3.0 Procedure Two

For manufacturing to be sustainable, it must develop circular processes that reuse, repurpose, and recycle resources. Environmental impacts need to be reduced. Sustainable manufacturers can harness the power of technologies such as AI and additive manufacturing to increase personalisation, which optimise resource-efficiency and minimise waste.

Table 2 Anonymous 16

Table Lable Here	Container	Variable	Unit	Goal	Range	Category	Remarks
	Step 1	Direction	N/A	Flow		Critical	Some notes
	Step 2	Variable A	CV	1	≥1	Critical	
		Pause	Seconds	2	≥0	TBD	
		Variable B	CV	3	≥1	Critical	
		Velocity	m/hr	91	90.0-95.0	TBD	
	Step 3	Volume	CV	5	≥1	TBD	
		Rate	m/hr	18	18.0-19.0	TBD	
		Some Texts Are going to be processed here					
	Step 4	Volume	CV	7	≥1	TBD	
		Velocity	m/hr	55	50.0-60.0	TBD	Some notes
Note: Everything should be done smoothly							

4.0 Procedure Three

Manufacturers must develop a higher degree of robustness in industrial production to better protect themselves against disruptions and crises such as covid-19.

Table 3 Anonymous 6

Step	Variable	Unit	Goal	Range	Ranking	Remarks

Step 1	Temperature	℃	10.0-20.0		TBD	
	Rate	N/A	Some Notes Here		TBD	
Step 2	Ingredient A	kg/kg	0.01-0.02		TBD	
	Process A	N/A	1.5	Lower Bound: 1.0	critical	Some notes here A
				Higher Bound: 2.0	critical	
	Process B	ON/OFF	OFF		TBD	Some notes here B
	Process C	Seconds	10	Lower Bound: 5.0	critical	Some notes here C
				Higher Bound: 20.0	TBD	
Step 3	Ingredient B	kg/kg	0.01-0.02		TBD	Some notes here D
	Process A	N/A	2	1.0-3.0	critical	
	Process B	m	4.1-4.5		TBD	
Notes: RPM should be taken care of						

5.0 Procedure Four

While robots can complete repetitive tasks far more consistently and precisely than humans, they are unable to problem-solve and intuitively address issues. This is invaluable in manufacturing where making judgements is a key component to ensuring the correct functioning of the whole system.

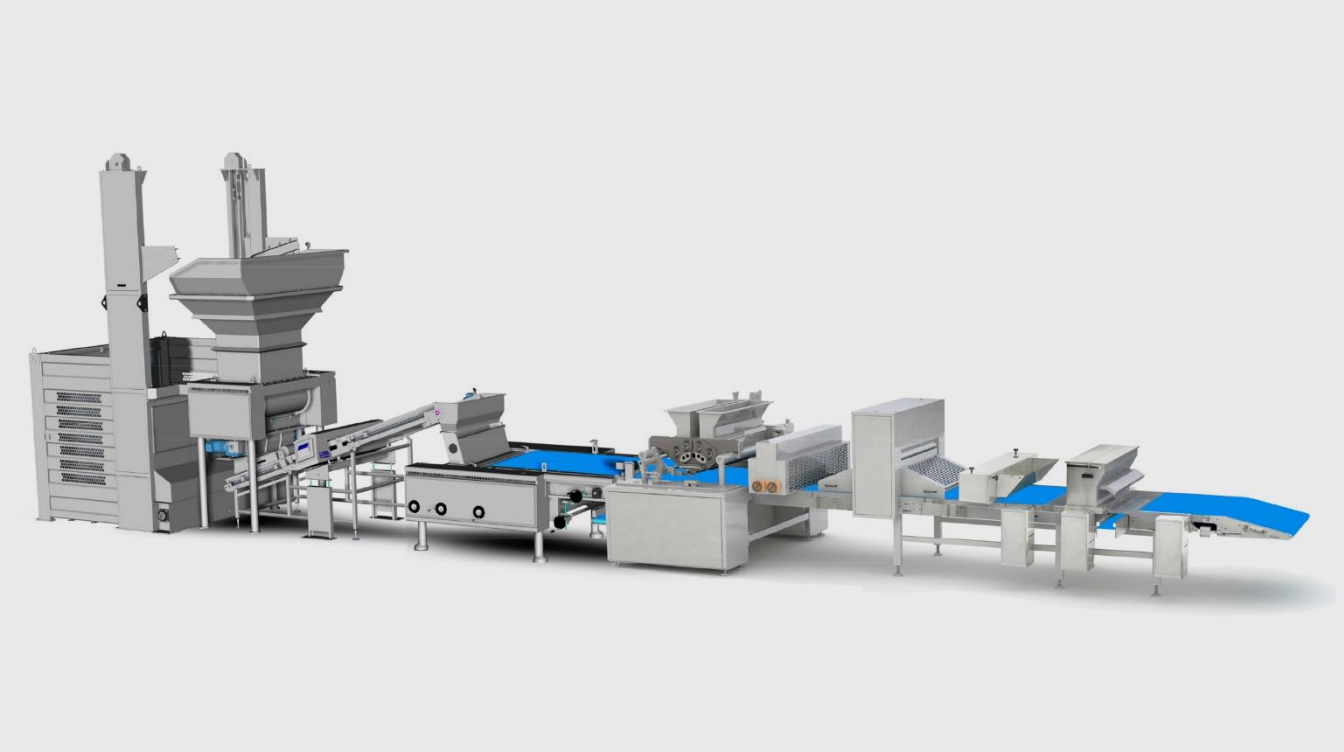

Figure 1 Anonymous 1

6.0 Procedure Five

Industry 5.0 makes the shift from robots to cobots--robots that collaborate with humans, who are at the centre of the process. Humans can use robots to carry out repetitive tasks such as tightening screws while they are free to critically think about the bigger picture. Human creativity is needed in Industry 5.0--problems can be solved by humans and fixed by robots.

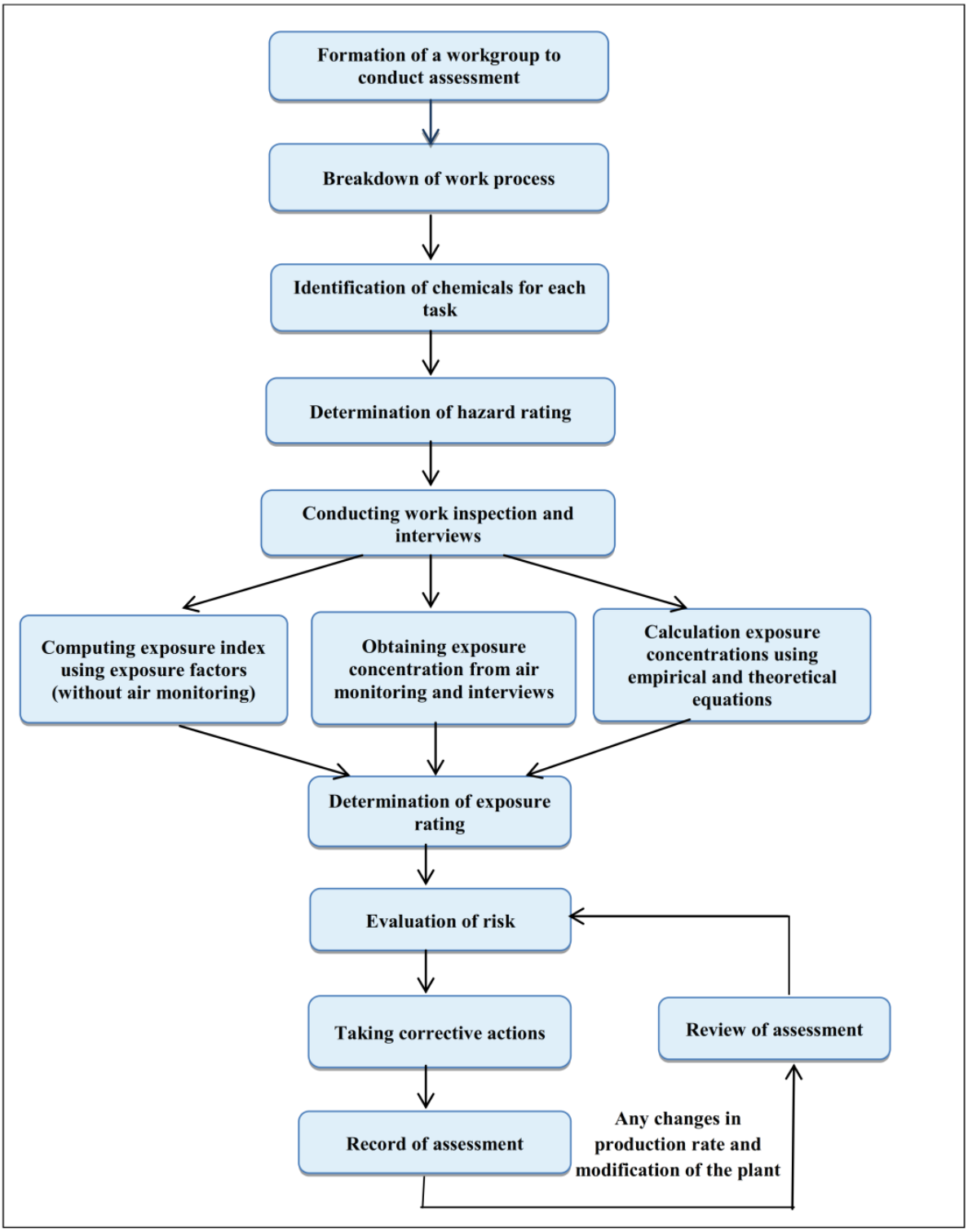

Figure 2 Anonymous 2