

Unit IG2: Risk assessment

Declaration: By submitting this assessment (Parts 1-4) for marking I declare that it is entirely my own work. I understand that falsely claiming that the work is my own is malpractice and can lead to NEBOSH imposing severe penalties (see the NEBOSH Malpractice Policy for further information).

Important note: You must refer to the document 'Unit IG2: risk assessment – Guidance and information for learners and Learning Partners' while completing all parts of this assessment. Your Learning Partner should provide you with a copy, but it can also be downloaded from the relevant resources section for this qualification on the NEBOSH website.

Part 1: Background

You should aim to complete this section in 150 - 200 words.

Topic	Comments					
Name of organisation*	Superior Paints Manufacturing Ltd (SPM Ltd)					
Site location*	Bright Ville Industrial Area, Jabalpur, INDIA					
Number of workers	106					
General description of the organisation	SPM Ltd is a medium-sized paint manufacturing company established in 2003 operating a comprehensive facility that includes a production plant, a storage warehouse for raw materials and finished goods, an R&D lab, and an administrative office. Notably, this plant is ISO 9001 certified, reflecting the company's commitment to quality management standards. Headquartered in Jabalpur, India, SPM Ltd operates solely from this location, with no additional branches. The business specializes in producing high-quality solvent- and water-based paints for industrial, commercial, and residential use. Typical activities include blending chemicals, mixing pigments, manufacturing various types of paints, using high-speed dispersers, bead mills or sand mills, and mixing tanks with agitators for efficient production, conducting quality assurance testing at different stages, transporting raw materials to production areas, blending solvents and resins, pigment dispersion, quality control sampling, packaging through a automatic servo base liquid filling machine, handling flammable liquids in storage areas. The company operates from 8:00 AM to 6:00 PM on weekdays and remains closed on weekends. Workers adhere to a 7-hour workday, with staggered start and finish times to optimize productivity.					

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Description of the area to be included in the risk assessment	The risk assessment will cover the production area, including the mixing and blending stations, the flammable liquid storage area, and the warehouse. The office area and R&D lab have separate risk assessments in place.
Any other relevant information	The Operations Manager (who reports directly to the Managing Director) is responsible for overseeing all health and safety matters.

^{*} If you're worried about confidentiality, you can invent a false name and location for your organisation but, all other information provided must be factual.

You should aim to complete this section in 100 - 200 words.

Note: this section can be completed after you have competed your risk assessment.

Outline how the risk assessment was carried out this should include:

- sources of information consulted:
- who you spoke to; and
- how you identified:
 - the hazards:
 - what is already being done; and
 - any additional controls/actions that may be required.

For collecting data required for the risk assessment the ILO standards were referred to know about the requirements and instructions related health and safety in construction site. ILO convention and recommendations were also referred that are mentioned below

1. ILO Convention C155

(https://normlex.ilo.org/dyn/nrmlx_en/f?p=NORMLEXPUB:12100:0::NO::P12100_ILO_CODE:C155)

2. ILO Recommendation R164

(https://normlex.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:12100:0::NO::P12100_ILO_CODE:R164)

After consulting outside sources, I visited the company and spoke with Operations Manager, Workers' Supervisors and Safety Manager. The Safety Manager assisted me in analysing company documents.

After reviewing company policies, I toured the production facility and observed processes like mixing, blending, storage are, and packaging. I interviewed workers to understand their safety practices and reviewed documents like basic SOP's, risk assessments, incident reports, and sick leave records. This helped me to identify hazards, assess control measures, and highlight areas needing improvement.

I also checked the accident book to see what types of incidents had occurred over the last 12 months and whether any of these incidents were recurring.

Part 2: Risk Assessment

Organisation name: Superior Paints Manufacturing Ltd (SPM Ltd)

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Date of assessment: 11th January 2025 Scope of risk assessment: Covers the production area and the warehouse.

Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
1. Noise Hazard	Workers of production area.	Basic personal protective equipment (PPE) such as earplugs or earmuffs are	Limit access to high-noise zones to only essential personnel to reduce exposure.	1 Week	Operations Manager
Noise hazard due to prolonged exposure to high noise	The use of sand mills and dispersers machines can cause hearing loss, tinnitus, and other auditory ailments to those	available, but not enforced. Training workers on the importance of using personal protective equipment (PPE)	Invest in sand mills and mixers with built-in noise-reduction features to replace older, noisier equipment.	6 Months	Procurement Manager
levels than 90DB generated by sand mills and other	who are exposed to high noise levels greater than 85DB for a prolonged period.	and safe work practices. Implementing a staggered shift system to reduce individual exposure times	Install noise-dampening insulation around sand mills and high-speed dispersers to reduce noise at the source.	3 Months	Maintenance Supervisor
production equipment.			Rotate workers in and out of the cutting area to ensure no individual exceeds the OSHA Permissible Exposure Limit of 85 dB over 8 hours	2 Weeks	Workers Supervisors
			Educate workers about the risks of noise exposure, the importance of hearing protection, and best practices to minimize exposure.	1 Months	Safety Manager
			Conduct regular health surveillance programs for workers to detect and	3 Weeks	Safety Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
			treat noise-related illnesses early.		
2.Substance abuse at work	Consuming workers, non- consuming workers, Supervisors, managers	A zero-tolerance policy for substance abuse clearly outlined in the company's	Implement strict pre-employment drug and alcohol testing.	2 Months	HR Manager
Workers using tobacco, alcohol and other drugs while working.	The consumption of alcohol and drugs negatively impact workers, Impaired	employee handbook. Regular toolbox talks include discussions on the dangers of substance abuse in the	Partner with local health organizations to offer rehabilitation programs for workers facing substance abuse issues.	4 Months	Safety Manager
	judgment or coordination, leading to accidents in high-risk areas such as mixing stations, blending stations, and the	workplace. Periodic inspections by supervisors to identify signs of substance use during work	Install surveillance cameras at critical areas (mixing stations, blending areas, and storage zones) to detect any unusual behaviour.	1 Month	Facilities Manager
	flammable liquid storage area. Non-consuming workers feel Stress or discomfort working alongside individuals under the influence. challenges for supervisors and managers for maintaining discipline and productivity.	hours. A designated smoking area far from hazardous zones to minimize fire risks.	Encourage the workers to report any use of drugs or alcohol by other coworkers in the site.	2 Weeks	Site Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
3. Manual Handling Workers in the warehouse	Warehouse workers and production staff. Workers who manually lift heavy loads on-site are at	Workers health conditions where checked regularly and also attendance sheet were observed daily to know more about the absentees' workers	Provision of conveyor belts and mechanical lifting equipment in the site to move materials form one place to another.	1 Month	Project Manager
and production areas frequently	risk of back injuries, bone injuries, bone fractures, and ligament strains,	and their health issues. Regular training sessions on	Implement a buddy system where workers can assist each other with heavy lifting tasks.	2 Weeks	Site Manager
handle heavy, overweight, or oversized materials,	spinal injuries etc, due to exceeding their physical limits.	proper lifting techniques were conducted to prevent injuries. Job rotations were provided to	Ensure that all lifting equipment's is regularly maintained and inspected for safety and efficiency.	2 Weeks	Site Manager
including loads exceeding 25kg.		the workers for the safe system of working. PPE's like safety shoes, gloves, helmets were provided	Implement a policy limiting the maximum weight of 25 KG as a standard weight that a single worker can lift without assistance.	2 Weeks	Project Manager
		for workers safety.	Inspections needed to be done regularly to check whether the workers are following proper methods.	3 Weeks	Site Manager
			Encourage a culture of safety where workers feel comfortable stopping work if they believe it is unsafe to continue.	2 Weeks	Site Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
4. Load Handling Equipment Two forklifts with faulty brakes are being used to transfer goods	Forklift Operators, Nearby Workers. Two forklifts with faulty brakes are being used to transfer goods between the production plant and the warehouse, posing significant risks. These	Routine Maintenance Program forklifts are inspected monthly, and basic servicing is carried out. Driver Training forklift operators are trained to handle equipment safely and perform pre-use checks.	Restrict use of faulty equipment mark faulty forklifts as "Out of Service" to prevent their usage until fully repaired. Segregated pathways for pedestrians create clearly marked pedestrian zones separate from forklift operating areas to minimize the risk of collisions.	1 Day	Maintenance Supervisor Safety Manager
between the production plant and the warehouse (storage area).	include the potential for severe injuries, such as crush injuries or broken bones, from being struck by an out-of-control forklift. Through these accidents can also result in injuries such as nerve damage, bone fracture	Speed limit for vehicles are maintained.	Make sure to repair the forklift as early as possible. Install warning systems on forklifts equip forklifts with audible alarms, flashing lights, and backup cameras to improve visibility and warn workers of their presence.	3 Days 2 Weeks	Maintenance Manager Procurement Manager
	and even instant death		Introduce pre-shift safety checks implement a checklist for forklift operators to inspect brakes, steering, and other safety features before each shift.	5 Days	Operations Manager
			Emergency brake testing procedure develop and implement a standard procedure to periodically test forklift brakes under supervision to ensure functionality.	2 Weeks	Safety Manager
			Ensure operators and pedestrians are	3 Days	

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
			equipped with appropriate safety gear (e.g., helmets, high-visibility vests).		Warehouse Supervisor
5. Hazardous Substance (Chemical)	Workers in production area, cleaning staff.	The workers were given training with how to handle chemicals during the work.	Implement automated mixing systems reduce dust generation.	4 Months	Maintenance Manager
Dust generated by the particles of pre-mix	Workers directly involved in mixing and blending operations, those in adjacent areas exposed to airborne dust, and	onemicale daming the menti	Upgrade local exhaust ventilation (LEV) systems, ensuring regular maintenance and the use of highefficiency filters.	2 Months	Maintenance Supervisor
pigments, fillers, and part of the binder in	cleaning staff responsible for handling the workspace after		Dust extraction systems must be installed at source of dust generation.	3 Months	Maintenance Manager
a high-speed disperser.	operations face significant health risks. Prolonged inhalation of airborne dust particles can lead to		Utilize water sprays or misting systems to suppress airborne dust at the source.	2 Months	Operations Manager
	respiratory issues such as occupational asthma, chronic bronchitis, or silicosis. Skin contact with		Replace dry sweeping with industrial vacuum cleaners equipped with HEPA filters.	1 Months	Facilities Manager
	the dust may cause irritation, potentially resulting in dermatitis, while dust particles		Encourage workers to wash hands and face before eating or drinking to prevent ingestion of dust particles.	1 Week	Workers Supervisor
	entering the eyes can cause irritation or even physical damage.		Ensure workers take regular breaks to reduce continuous exposure to dust.	1 Week	Workers Supervisor

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
			Respiratory masks and dust filters must be provided to workers to prevent them from inhaling dust particles.	2 Weeks	Safety Manager
			PPEs like safety transparent eye glasses, masks, helmets, gloves must be provided to workers.	2 Weeks	Safety Manager
6.Hazardous Substance (chemical)	Production workers, Visitors and Housekeeping staff.	Supply of personal protective equipment (PPE) such as gloves, goggles, and	Updating the policy about the use of low-VOC or zero-VOC paints.	1 Month	Safety manager
Exposure to volatile organic	Workers operating blending and mixing	respirators. Use of local exhaust ventilation	Installing an automated VOC detection system to provide real-time monitoring.	2 Months	Maintenance Manager
compounds (VOC), Fumes, vapours during mixing,	machines are directly exposed to volatile organic compounds (VOCs) and chemicals. During cleaning activities	(LEV) at mixing and blending stations to reduce airborne contaminants. Designated storage areas with proper labelling and	Checking the storage area on a regular basis to ensure proper material handling and storage, and ensuring no leaks in buckets and containers.	1 Week	Warehouse Supervisor
blending and storage of paints.	and site visits, visitors are also exposed to VOCs and paint vapours. These substances can cause	segregation for flammable liquids and hazardous substances.	Periodic medical check-ups for employees to monitor health related to chemical exposure.	1 Month	HR Manager
	headaches, dizziness, respiratory irritation, and, it is a chronic hazard which may lead to serious	Routine air quality monitoring to ensure VOC levels remain within permissible limits.	Developing and implementing a Permit-to-Work system for chemical handling and maintenance tasks.	1 Month	Operations Manager
	health issues like organ damage, Asthma.	Availability of Material Safety Data Sheets (MSDS) for all	Make sure that Spill containment kits available in all high-risk areas.	2 Weeks	Safety Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
		chemicals on-site. Periodic safety training on chemical handling. Emergency showers and eyewash stations installed near chemical handling areas. Ensuring rotatory shift in storage area.			
7. Slip and Trip Hazard Spillage of	Production workers and visitors. In the mixing, dispersion,	Routine cleaning of work areas and spillages by designated cleaning staff.	Update the policy to prevent overloading of pigments and fillers during the manufacturing process.	2 Weeks	Operations Manager
chemicals and slippery substances during mixing	and blending areas, workers and visitors face risks of injuries such as cuts, bruises, muscle	Provision of non-slip safety footwear for all workers. Installation of safety signage to	Construct bund walls around machinery to contain potential spills and leaks.	1 Month	Maintenance Manager
and manufacturing processes and dried	strains, or broken bones from slipping on spilled liquid binders, solvents, or water. Tripping hazards	indicate wet/slippery areas. Use of spill kits in key areas to quickly manage chemical spills.	Ensure proper drainage systems are in place to allow water flow and avoid surface accumulation.	1 Month	Facilities Manager
chemicals, equipment, or tools left on the floor.	also arise from dried chemical residues, misplaced tools, or equipment. Additionally,	Induction trainings are given to visitors on activities and hazards of slip and trips at site.	Implement a daily inspection checklist to ensure floors and workspaces are free from spills or dried chemicals.	2 Weeks	Safety Manager
the hoor.	overloading pigments and fillers during the manufacturing process	nazardo di siip and tripo at site.	Establish a system for workers to immediately report spills or hazards to supervisors for prompt action.	2 Weeks	Workers Supervisor

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
	can pose safety risks to both production workers and visitors.		Provide training to workers on correct housekeeping methods to maintain a clean and safe work environment.	3 Weeks	Safety Manager
8. Work Equipment and Machinery	Workers operating the filling machine, Maintenance staff, Nearby workers	Basic guarding installed Some protective barriers are in place to reduce direct contact with moving parts.	Assess if manual alternatives can be considered for non-essential operations to reduce reliance on the servo-based machine.	1 Month	Operations Manager
Lack of proper safeguarding in the automatic servo-based	Workers may encounter moving parts like conveyor belts, filling nozzles, or capping mechanisms, risking cuts,	Signage Warning signs displayed near the machine to alert workers about potential hazards.	Evaluate the feasibility of replacing the current servo-based filling machine with a more modern version that has built-in safety interlocks.	3 Months	Maintenance Manager
liquid filling machine.	pinching, or crushing injuries and some time it leads to the fatal injuries	Lockout/Tagout (LOTO) procedures Implemented for maintenance activities to de-	Install interlocked guards that stop the machine when opened or accessed.	2 Months	Maintenance Supervisor
	also. Maintenance or repair activities without proper de-energization or guarding increase these risks. Additionally,	energize the machine. Training Workers receive basic training on operating the machine and recognizing	Introduce light curtains or pressure- sensitive mats to automatically halt the machine if someone enters a hazardous zone.	3 Months	Safety Manager
	unguarded machinery may harm workers passing through the area, leading to accidental interactions and similar	hazards. Given appropriate PPE such as cut-resistant gloves, safety goggles, and protective	Develop and enforce Standard Operating Procedures (SOPs) for operating and maintaining the machine.	1 Month	Operations Manager
	injuries.	footwear when working near the machine.	Perform periodic third-party safety	6 Months	Safety Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
		Emergency stop buttons at easily accessible locations around the machine.	audits to align with best practices and regulatory standards		
9. Fire Hazard Storing flammable	Workers in production area, adjacent area (warehouse and admin offices), visitors or	Use of fire-resistant storage cabinets for flammable liquids. Regular fire drills and	Inflammable fuels and other substances need to be stored in separate storage area.	3 Weeks	Safety Manager
fluids such as paint thinners (e.g., turpentine)	contractors in the facility and environment. Workers in production	evacuation plans implemented. Provision of fire extinguishers (foam and CO2) near the	Conduct regular flammable liquid inventory checks to avoid excess stock on-site.	1 Week	Warehouse Supervisor
near hazardous machinery in the production	areas risk severe burns or fatalities from fires caused by flammable fluids near mixing machines. Fires	production area and flammable liquid storage. Procedures (SOPs) for	Relocate flammable liquid storage at least 10 meters away from operational machinery.	1 Month	Operations Manager
area, specifically near the mixing and	can also cause suffocation, coughing, headaches, and carbon monoxide poisoning from	handling flammable liquids. Signage and labels indicating "Flammable" near storage	Introduce ATEX-rated (explosion- proof) mixing and blending machines to prevent sparks during operation.	2 Months	Maintenance Manager
blending machines.	smoke. Those in adjacent areas, such as warehouses or offices, face risks from fire spread and toxic fumes. Visitors	areas. Training workers on safe handling of flammable fluids and emergency response.	Install automatic fire suppression systems (e.g., sprinklers) in high-risk areas like the mixing and storage sections.	6 Weeks	Facilities Manager
	and contractors may also be endangered if fires spread. Additionally, fires and chemical spills pose		Use spill containment pallets under flammable liquid storage containers. Enforce a hot work permit system for	3 Weeks 2 Weeks	Warehouse Supervisor Safety

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
	environmental hazards, potentially contaminating nearby land and water through firewater runoff.		any activities involving sparks or heat in the production area. Provide flame-resistant uniforms for all workers in the production area.	1 Month	Manager HR Manager
10. Electricity Machines with damaged	Workers, engineers, supervisors, using these machines for work.	Ground fault protection is provided like GFCI or RCD. Equipment has an emergency	Damaged cables are needed to be replaced with new ones with better insulation.	1 Week	Maintenance Supervisor
cables and torn insulation	Contact with damaged cable can lead to the person getting an electric shock causing injuries like	Inspections are conducted regularly before using	Install protective covers to cables to reduce damage and use cable management to organise them.	1 Month	Maintenance Supervisor
	temporary unconsciousness, muscle pain.	temporary machines in work by an electrician.	Training should be given to workers on handling of machines and rearranging them after work.	2 Weeks	Safety Manager
	If shock is even lethal, It can lead to severe burns, cardiac arrest and even death.	used when using high voltage machines.	Implement a response team capable of handling any emergency situations like person getting electrocuted.	1 Month	Safety Manager
	doddii		PPE like sleeves covering arm, safety shoes that have nonconductive soles so that person is fully isolated should be provided.	3 Weeks	Safety Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
11. Confined spaces Entering confined Spaces without proper ventilation and quality monitoring	Workers entering confined spaces such as ducts at the site can expose workers to dangerous conditions, including oxygen deficiency or toxic gas accumulation. These hazards can cause serious health issues such as asphyxiation, respiratory distress, or even fatal outcomes.	Safety barricades and warning signs are placed around confined spaces for workers safety. Ventilation systems are installed to ensure a constant supply of fresh air in confined spaces. An emergency rescue plan is in place, and rescue equipment's readily accessible. Communication devices such as radios, are provided to the workers those who are inside the confined spaces.	Regular monitoring of air quality levels should be done within the confined spaces. Ensure clear and easy access to exits and emergency escape routes within the confined spaces. Permit-to-work system needed to be implemented. Only those workers who are competent and those having efficient knowledge about confined spaces are allowed to enter there. Provide access to first aid kits and trained first aid responders near confined spaces. Ensure all the confined spaces are thoroughly inspected before any entries.	2 Weeks 1 Week 1 Month 2 Weeks 2 Weeks	Safety Manager Facilities Manager Operations Manager Site supervisor Safety Manager Maintenance Supervisor
12. Electrical Hazard Residual current in the Automatic	Workers operating the machine, maintenance personnel. Workers who are working or operating the machine	Routine visual inspections of electrical equipment and machinery. Basic personal protective equipment (PPE) provided,	Purchase & Install Residual Current Devices (RCDs) fit RCDs on the electrical circuit connected to the machine to detect and disconnect any leakage current immediately.	2 Weeks	Maintenance Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
Servo Base Liquid Filling Machine during the paint	and the workers who maintain the machine on daily basis has a risk of electric shock, electrocution, electric	such as rubber gloves and insulated footwear, for workers in high-risk zones.	Ensure proper earthing conduct an earthing test and install a robust earthing system to mitigate residual current buildup.	1 Month	Maintenance Manager
packaging process due to improper earthing	burns, cardiac arrest, nerve damage, or even death in severe circumstances.		Install an emergency shut-off switch install an easily accessible emergency stop button on the machine to immediately cut off power in case of an emergency.	2 Weeks	Maintenance Manager
			Training programs for workers conduct electrical safety awareness training for workers, emphasizing the importance of reporting any signs of malfunction or residual current.	1 Month	Safety Manager
13. Mental ill- health Stress arising	Workers and Supervisors Pressure to meet production targets can	Workload Management Staggered start and finish times to avoid overcrowding and distribute tasks effectively.	Automate repetitive and physically demanding tasks to reduce worker stress.	4 Months	Maintenance Manager
from demanding workloads,	lead to emotional distress and poor decision-making for supervisors, while	Break Times Provision of scheduled breaks to allow	Hire more workers to speed up the work to handle the workload.	7 Weeks	HR Manager
exposure to tight deadlines in production, inadequate	workers may experience prolonged stress, resulting in anxiety, depression, burnout,	workers to relax and reduce fatigue.	Appoint a company counsellor for helping workers with issues related to mental ill-health.	2 Months	HR Manager
rest breaks, and lack of	physical symptoms like headaches, fatigue, and		Monitor workloads regularly to ensure that employees are not being	2 Weeks	Operations Manager

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Hazard category and hazard	Who might be harmed and how?	What are you already doing?	What further controls/actions are required?	Timescales for further actions to be completed (within)	Responsible person's job title
mental health support.	even insomnia.		overburdened. Introduce a mental health awareness program, including stress management workshops and resilience training.	6 Weeks	HR Manager

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Part 3: Prioritise 3 actions with justification for the selection

Suggested word counts

Moral, general legal and financial arguments for all actions: 300 to 350 words

For **EACH** action:

Specific legal arguments: 100 to 150 words Likelihood AND severity: 75 to 150 words

How effective the action is likely to be in controlling the risk: 100 to 150 words

Moral, general legal and financial arguments for ALL actions

Moral, general leg	al and financial
arguments	

Moral Arguments

At Superior Paints Manufacturing Ltd (SPM Ltd) company, the company have to face moral loss if an accident occur due to poor safety standards, In addition to trust and morale issues, accidents can lead to guilt and regret among managers, diminishing their leadership confidence. Witnesses or those affected may experience trauma, creating a tense work environment and increasing fear. Families of injured workers face emotional and financial distress, straining trust in the employer. Public scrutiny and media attention can damage the company's reputation, harming relationships with customers and partners. Furthermore, resources may be diverted from growth initiatives to address the aftermath of the accident, staff turnover, loss of contractor's deal, delaying progress and hindering competitiveness. These moral losses highlight the need for strong safety measures to protect both employees and the company's long-term success.

Legal Arguments

Employers are legally obligated to provide a safe workplace in line with International Labour Organization (ILO) conventions and recommendations. Specifically, ILO Recommendation 164 (R164) Article 10 and ILO Convention 155 (C155) Article 16 require employers to ensure, as far as practicable, that the workplace, machinery, equipment, and processes under their control are safe and do not pose risks to employees' health. Additionally, ILO Convention 167 Article 13 mandates reasonable measures to eliminate workplace hazards that may jeopardize employees' health and safety.

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Failure to meet these legal obligations can result in enforcement actions such as verbal warnings, improvement notices, prohibition notices, or legal prosecution. Penalties may include fines, imprisonment, operational restrictions, or even a ban on business activities. Noncompliance also risks tarnishing the organization's reputation and jeopardizing future business prospects. Compliance with these health and safety standards is not only a legal necessity but also essential for safeguarding the organization's reputation and operational success.

Financial Arguments

Workplace accidents can result in significant financial losses for a company, categorized as direct and indirect costs.

Direct Costs

- 1). The company bears the expense of providing first aid and medical treatment to injured workers.
- 2). Injured employees must be compensated with sick pay during their recovery period.
- 3). Property damage, such as broken machinery or tools, requires costly repairs or replacements.
- 4). Reduced workforce due to injuries may cause production delays and associated financial losses.

Indirect Costs

- 1). Workplace injuries can lower the morale of other workers, reducing their efficiency and work quality, leading to further delays and losses.
- 2). Production delays may result in late deliveries, harming customer relationships and damaging the company's goodwill.
- 3). Recruitment and training of replacement workers add to the overall operational costs.
- 4). A damaged company reputation due to workplace accidents can lead to cancelled contracts, lost partnerships, and fewer new business opportunities.
- 5). Industrial relations may be strained due to incidents, potentially causing strikes or other disruptions, further impacting revenue.

While some costs—like medical expenses, workers' compensation, and property damage—are covered by insurance, others, such as production delays, sick pay, and penalties, are not.

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Moreover, insurance claims can lead to increased premiums, and companies with poor safety
records may struggle to secure coverage.

Justification for action 1

Justification for action 1	
Action (Taken from column 4 of risk assessment)	Inflammable fuels and other substances need to be stored in separate storage area (Hazard category: Fire)
Specific legal arguments	According to International Labour Organization (ILO), Convention C167, Article 29, it is directed that employers should provide a sufficient storage for flammable fuels, liquids, gases and solids. These legal rules are made to reduce the Fire risks. If any of the rules were failed to obey, then it can be resulted in significant consequences, including fines which can lead to financial loss and can loss credibility Additionally, the ILO's Recommendation R175, Nos.46, and 47, states the importance of providing training and other knowledge's to employees when a fire hazard takes place. So all these will provide the employees to use the fire equipment's safely, which will lead to a safer environment and will reduce the chance of any fire hazards
 Consideration of likelihood AND severity types of injury or ill health number of workers at risk how often the activity is carried out how widespread the risk is 	The probability of this hazard occurring is extremely high due to the careless placement of inflammable liquids and chemicals near operational machinery such as mixing and blending equipment. This significantly increases the risk of fire, especially if turpentine barrels are left uncovered and exposed to potential sparks. The severity of this hazard is critical, as it can result in a range of injuries. At minimal risk, there might be no harm, but at minor levels, individuals could sustain burns, cuts, or experience pain, which can be addressed with basic first-aid. More serious conditions could involve respiratory issues from inhaling carbon dioxide, smoke, or sulphur dioxide, leading to breathing difficulties. In the worst-case scenario, severe burns, paralysis, coma, or even fatalities may occur.
	Currently, 34 workers in the production area are regularly handling inflammable substances, such as paints and thinners, as part of their daily activities. The risk is widespread and amplified by the fact that flammable materials are present across the production area and are stored in close proximity to one another. However, these risks can be mitigated through the implementation of proper work practices and safety measures.
How effective the action is likely to be in controlling the risk. This should include:	Storing flammable liquids in a designated, separated area is an effective control measure to reduce fire hazards. There is a chance that when sometimes workers carelessly leave the lids open after
 the intended impact of the action; 	use, which will lead the Turpentine to spread into the surroundings, and eventually spread across

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•	justification for the timescale that
	you indicated in your risk
	assessment; and

 whether you think the action will fully control the risk the entire area.

The intended impact is to minimize the spread of flammable vapours, thus significantly lowering the risk of ignition and fire. While this measure cannot completely eliminate the risk due to other contributing factors, it serves as a critical step in fire hazard prevention.

The three-week timescale indicated by the Safety Manager is reasonable, as it allows for proper planning and consultation with the Project Manager to ensure the safe implementation of storage protocols.

The suggested actions can significantly reduce the risk, but cannot entirely eliminate it. There are several other numerous factors that can lead to a fire hazards. Our main goal is to reduce the maximum we can, by implementing many safe practices and control measures.

Justification for action 2

Action (Taken from column 4 of risk assessment)	Damaged cables are needed to be replaced with new ones with better insulation. (Hazard category: Electricity)
Specific legal arguments	The International Labour Organization (ILO), Convention C167, Article 26, specifies that the installation and maintenance of electrical cable on work sites must stick to the National technical rules and standards. One of the main duties of the employer is to give financial resources for the management to provide management and maintenance of wires and cables, so that we can ensure protection against electrical hazards from live cables and cords.
Consideration of likelihood AND severity • types of injury or ill health	Electrical works are consistently carried out by staggered shifts due to high volume of production activities.
 number of workers at risk how often the activity is carried out 	The likelihood of electricity hazard is very likely because of the regular use of electrical equipment's and the presence of cracked and damaged wires.
how widespread the risk is	The severity of accidents is also significant ranging from minor to fatal.
	In minimal conditions there will be no injuries. In minor condition there will be cuts and skin burns. In major conditions there is chance of internal bleeding's, tearing of tissues, muscles, and bone

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	fractures can also occur because of falling when an electric shock hits. In fatal condition there is chance of cardiac arrest, respiratory arrests, nerve damage and also even death. There are 34 workers in the production area, those who are engaged in several electrical activities and also using electrical equipment's. All these workers are at risk due to damaged cords and wires. The activity is carried out daily, except weekends. On the working days there is frequent usage of electrical equipment's. The risk is widespread, affecting the production area where there is a regular use of the damaged wires, cables, and equipment's.
How effective the action is likely to be in controlling the risk. This should include: the intended impact of the action; justification for the timescale that	This action significantly reduces the risk occurring at some extend. By replacing or repairing damaged cords, workers are less likely to encounter the exposed copper wires, so reducing the likelihood of electric shocks.
you indicated in your risk assessment; and whether you think the action will fully control the risk	The information has been passed to the site supervisor. He exactly requires 1 week for collecting the fund from the project manager, and to give advices to the maintenance manager for maintenance of these cords and wires.
rully control the fisk	The action will fully control the risks up to 80 percent. While replacing or repairing damaged cords, minimizes the chance of workers to come in contact with the expose's wires, which will directly lead to many injuries. Continuous monitoring, regular maintenance, safety training classes will manage and reduce the risk efficiently

Justification for action 3

Action (Taken from column 4 of risk assessment)	Dust extraction systems must be installed at source of dust generation (Hazard category: Hazardous substance- Chemical)
Specific legal arguments	According to the ILO convention C155 it is the responsibility of SPM LTD to provide safe workplace to the workers. By Article 16 It is the employer's responsibility that workplaces, machinery, equipment and process under their control are safe and without risk to health. Employer should ensure that chemical, biological and physical substances and agents under their control are without risk to health.
	By ILO convention C148 Work Environment article 10 employer should provide the protective clothing like workwear which avoid accumulation of dust and protective equipment like masks or respirators to prevent risk of accidents or adverse effects on heath due to the exposure to dust

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	particles in air.
	Also recommendation R164 supplements C155 by providing detailed guidance to comply the policies in C155. Workers should be provided protective measures to work in air polluted condition like dust and it is the duty of employer and right of every worker.
Consideration of likelihood AND severity	Likelihood of workers to be exposed to dust is likely because of the regular use of dispersers.
types of injury or ill healthnumber of workers at risk	Considering Severity I categorise it into 3
 how often the activity is carried out how widespread the risk is 	Minor : small breathing irritations manageable with first aid treatment or basic medical treatment Major : significant breathing problems like asthma, bronchitis which needs more medical treatment facilities.
new masspread the nexts	Severe : severe conditions like silicosis severe chronic lung diseases which can cause long term disability or can become threat to life.
	Inhaling dust particles from pre-mix pigments, fillers can lead respiratory problems like asthma or chronic bronchitis. Fine crystal particles contain silica which cause silicosis to the lung causing inflammation of tissues in lungs.
	Approximately 08 to 10 workers work for 7 hrs daily in a staggered shift so regular exposure to dust can cause health issues as they are doing the work regularly.
	The risk here is large one as workers are been directly affected while doing work from source itself, also dust spreads through the air to nearby surroundings creating air quality problems to other parts of work site.
 How effective the action is likely to be in controlling the risk. This should include: the intended impact of the action; justification for the timescale that 	The control measures are there to largely reduce the amount dust produces at the source itself so that dust is removed before it exposed to workers or being mixed in air to surroundings. So we are reducing significant amount worker exposure to dust and improved air quality for all workers with safe healthy workplace, thereby reducing any cases of respiratory problems like asthma, silicosis.
you indicated in your risk assessment; and whether you think the action will fully control the risk	To install the extraction system, it would take at least 3 months for it be functional. Procedures include approval after discussing with top managers, fund approval and allocation, selection of suitable extraction system for the site, ordering parts of the extraction system, installation and giving training to give maintenance of machine, all operations will take at least 3 months complete.

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Extracting systems at the source of the dust particles is very effective to control dust hazards,
catching dust before exposure and mixing in to the environment ensures that this risk can be fully
controlled ensuring safer workplace.

Part 4: Review, communicate and check

Suggested word counts for each section:

- Planned review date or period and reasoning for this: 50 100 words
- How the risk assessment findings will be communicated and who needs to know the information: 100 150 words
- Follow up on the risk assessment: 100 150 words.

Planned review date/period with	The risk assessment policy at Superior Paints Manufacturing Ltd (SPM Ltd) ensures that reviews
reasoning	are conducted annually, with the next scheduled review date set for 11/01/2026. However, in the
	event of any accidents, incidents, or near misses, an immediate risk assessment will be carried out.
	Additionally, reviews are conducted earlier if there are changes in the number of workers,
	introduction of new equipment, machinery, processes, or any updates to applicable laws or
	regulations. These measures help maintain a safe working environment within the production plant,
	storage facilities, and administrative areas while reducing risks efficiently.
How the risk assessment findings will be	The risk assessment findings will be communicated with the help of a report and this report is then
communicated AND who you need to tell	shared to the key persons that include Operational Manager, Managing director, project manager,
	site manager, maintenance manager, accounts and finance manager, and safety manager also.
	After sharing these reports, a meeting will be conducted among these individuals and many findings
	will be discovered on how to create and maintain a safe environment in the work site, also, if
	necessary, establish more safety control measures, all in a moral, legal, and financial perspective.
	After all, training's will be provided to the workers on how to maintain a safe work place, and
	competent workers will be assigned to do hard jobs.
How you will follow up on the risk	To follow up the risk assessment and ensuring everything is performing correctly, we will be having
assessment to check that the actions	regular meetings with key authorities to discuss the progress and also regular site inspections, also
have been carried out	verifying the control measures. Workers will have a easy method to report any issue to the
	management. There will be also regularly reviewing the incident reports. Workers feedback section
	will also be taken into consideration at the time of inspection. All these will be documented properly
	so to get a continuous going. I will be also establishing a deadline-system for those works that have
	to completed in specific time period because of its risk. By doing all these follow-up process, we
	can ensure an efficient risk management system, leading to a safer workplace.

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