

Common Injuries, Causes & Prevention in Chemical Manufacturing Plants



Chemical manufacturing plants are responsible for handling a variety of hazardous products. As a result, the workforce becomes exposed to toxic chemicals and heavy equipment.

For these reasons, [chemical toll manufacturing companies](#) follow safety protocols to prevent injuries. Moreover, knowing how to address emergencies is imperative.

Learn more about health and safety risks in chemical manufacturing plants and how you can protect your workforce from them.

Common Injuries in Chemical Manufacturing Plants

Hazards that occur in chemical manufacturing plants are a result of non-compliance. You have to follow safety protocols to prevent the potential hazards discussed below.

Chemical Burns

Burns on the arms, hands, or legs are common threats when dealing with various chemical substances. Whether the chemicals are acid or alkaline-based, plant workers are prone to accidents, especially when they don't use proper safety gear.

There are other reasons why your workforce gets exposed to potential chemical burns. For instance, containers may feature the wrong labels, or you may have a disorganized storage facility. Chemical burns are also most common when your workforce needs proper training.

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Overexertion & Fatigue

Expert **chemical toll manufacturers** believe exhaustion poses an immediate threat to any industrial setting. When plant workers exert themselves beyond capacity, they could injure themselves.

Additionally, this means they work longer hours without taking necessary breaks. As a result, this takes a toll on their bodies, reducing operational efficiency. Overexertion can also occur when your body is lifting more weight than it can carry.

When your workforce suffers fatigue, ensure you address the situation. An exhausted workforce is less productive and becomes prone to injuries. Many **chemical toll manufacturing companies** have switched to automation for more physically taxing processes to improve efficiency.

Slippery Floors & Clutter

Chemical manufacturing plants contain hazardous materials, heavy machinery and equipment. In this case, one of the major causes of workplace injuries is a damaged and slippery floor.

Your staff may trip, fall, or slip on greasy, damaged floors that need proper signage. Even improper lighting and ventilation in untidy settings are disasters waiting to happen.

A safety program that lacks fail-safe options and proper training is useless to your workforce. Accidents could happen when a crew doesn't know the necessary safety procedures.

Chemical Gas Inhalation

Certain chemicals release vapours or gases, exposing your workforce to toxic fumes. As a result, your crew may have trouble breathing or experience respiratory disorders.

One of the most common reasons this happens is when a workspace isn't properly ventilated. This also happens when you need to update your workforce about safety protocols.

Failure to wear protective equipment and gear will put your workforce at a higher risk. You can deal with many issues and prevent injuries with a proper safety improvement plan.

Prevent Injuries in Chemical Manufacturing Plants

Accidents happen in a workplace when a facility lacks efficiency and fails to maintain compliance. Here's how chemical toll manufacturing companies ensure expert material handling and safety in the workplace.

Provide Training and Education

Please don't assume your employees know how to respond to an emergency or deal with a chemical hazard without proper supervision.

Ensure your workforce undergoes training in standard operating procedures in the workplace. Additionally, you can disclose specific handling instructions for various chemicals whenever a new order is processed.

Ensure your workforce wears proper safety equipment and clothing before they start. Oversee continual training for your staff to ensure your chemical manufacturing plant stays safe. You can also introduce monthly refresher courses for your employees.

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Maintain a Clean Workspace

A vital part of any safety maintenance program is regular cleaning. Maintaining a clutter-free work environment that doesn't lead to injuries is essential.

It would help if you also considered placing new signage so that your workforce remains aware. Document all safety procedures and work processes and distribute guides to your

crew. From proper chemical storage to scheduled break times, maintain quality standards.

Label the Chemicals Correctly

Always recheck the labels on the containers to see if it matches the chemical inside. This will help minimize the risk of hazards when the material is being handled.

This also helps prevent accidents like mixing incorrect substances in a reaction. Additionally, the correct labels help ensure the proper disposal of hazardous chemicals.

Provide access to material safety data sheets by using suitable labels and signage. Ensure workers use the MSDS to follow safe handling practices before working with any chemical.

Conduct an Inspection

An inspection is one of the best practices you can follow in a chemical manufacturing plant. Every month schedule a review with your workforce.

Once you assess the location of all chemicals, check whether they're stored in the right place. Verify that the chemicals in the containers don't react with elements nearby.

Also, check whether there's adequate ventilation, lighting, and plumbing. Run your inspection in the workplace and storage spots to check air quality.

Find Expert Chemical Toll Manufacturing Services

Chemical warehouses equipped with the right assets are ideal places for storing chemicals. If you're looking for material handling experts, get in touch with our team of experts right away.

We follow the best material handling practices at [Wilson Chemical Innovations](https://www.wilsonchemical.com/) to ensure workplace safety. With years of experience in chemical manufacturing, we provide the best **toll manufacturing services** and custom blending solutions.

To learn about toll manufacturing costs, contact us now.

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