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A carpenter builds or repairs various structures, working primarily with wood. Some of a carpenter's main duties are to: Move, measure, cut, shape, assemble and join materials. Read, prepare and interpret blueprints and drawings. Prepare cost estimates and documentation for clients. Conform to building codes and other regulations. Use, clean and maintain various equipment and tools. Supervise apprentices or other workers. Back to top

Carpenters face their own unique set of occupational hazards. These include the following: Use of various machinery and tools. Exposure to loud noise from machinery and tools. Moulds, fungi and bacteria. Chemicals, solvents, paints, stains, and other materials which may result in dermatitis, allergic reactions, or respiratory problems. Cancer risk from certain wood dusts. Flammable materials, including wood dust. Combustible dust may also be a concern. Risk of pain or injury from working in awkward positions, performing repetitive tasks, or lifting. Risk of cuts, abrasions, and other injuries from handling workpieces and using tools or equipment. Risk of entanglement of body parts into rotating parts or machinery. Extreme temperatures when working outdoors. Risk of eye injury from flying particles. Working at heights. Stress. Shift work or extended work days. Working alone. Additional hazards may be present due to the nature of the worksite. Always be aware of your surroundings. Back to top

Inspect work area, tools, and equipment before work starts for possible hazards. Select tools and equipment that allow work to be done using good ergonomic procedures. When there is a choice, select a tool of low weight. Keep tools and equipment in good working order. Know when to replace accessories on woodworking machines. Clean up wood dust regularly and maintain good housekeeping practices. Keep work areas clear of clutter and equipment. Disconnect the power to any machine when you have to fix an issue or change parts. Use lock-out/tag out procedures and/or maintain control of the power while working on the machine to prevent accidental start-up. Never operate machinery without all guards in place. Wear appropriate eye protection, hearing protection, footwear, and other protective equipment for the task. Know about the products you are working with, including type of wood, chemicals, paints, stains, etc. Learn safe lifting techniques. Avoid awkward postures or repetitive tasks, or take frequent breaks. Be sure to stand in the correct position - always allow for kick back. Never use your hands to run lumber through the blade or to clean off sawdust. Use a push stick and a brush. Do not wear loose clothing around rotating parts or machinery. Follow a recommended shift work pattern, and know the associated hazards. Install and maintain appropriate ventilation. Back to top

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In general, eye and face protection needs to be worn whenever there is a risk to a worker that could result in an injury or harmful exposure to a workers eyes or face. These hazards are associated with: Flying objects, particles, and dust (e.g., grinding, cutting, hammering, sawing) Splashes (including droplets and sprays) from chemicals and other liquids Radiation (e.g., welding) and lasers Abrasive and molten material Check the legislation in your jurisdiction to determine the requirements for eye and face protection. Many jurisdictions in Canada require eye and face protection to meet CSA Standard Z94.3 Eye and Face Protectors. Workplaces should conduct hazard assessments to identify the hazards that workers may be exposed to, and then select appropriate personal protective equipment when engineering controls or other more permanent methods of control are not possible. Consult with the personal protective equipment manufacturer about the uses and limitations of each type of eye and face protection. If using personal protective equipment is part of the work, the workplace should develop and implement a personal protective equipment program. A good comprehensive strategy involves considering the hazards, conducting risk assessments, evaluating all possible control methods, integrating various approaches, and re-examining the controls frequently to make sure that the hazard continues to be controlled. Back to top

Below is a brief description of different types of eye and face protection (see tables further below for more detailed information). Safety glasses or spectacles Protect eyes from impact hazards (e.g., flying objects and particles). Goggles Direct vented goggles which protect against impact hazards Non-vented and indirect vented goggles which protect against impact hazards, chemical or liquid splashes, and fine dusts. Goggles specifically designed for protection against non-ionizing radiation and lasers are also available. Face Shields Flying objects protect the eyes, nose, mouth, and face from impact hazards and chemical or liquid splashes (including saws). Face shields are also available to protect against non-ionizing radiation, high heat and electric arcs. When used for protection from respiratory infectious diseases, face shields can offer benefits such as protection from respiratory particles produced from coughing or sneezing, and from splashed bodily fluids (e.g., blood and saliva) Welding Helmets Protects eye and face from radiation, weld splatter, and impact hazards associated with certain activities (e.g., welding, torch cutting, brazing). Hoods Protects eye and face from impact hazards, dust, splashes, and abrasive material. Hoods are also available to protect against non-ionizing radiation, high heat and electric arcs. Respirator facepieces Full-face respirators provide a seal or partial seal (e.g., loose-fitting hood or helmet) around the perimeter of the face. Protects eye and face from chemical exposures, fine dusts and particles, liquid splashes, and impact hazards (lens in the respirator must meet the same impact protection standards as safety glasses and face shields). Respirator facepieces are also available to protect against non-ionizing radiation. Back to top

Lenses: CSA-certified eye and face protectors must meet the criteria for impact resistance as outlined in the standard. Only devices made of approved materials are permitted. Markings: The manufacturer or supplier certification mark must be present on all approved safety lenses, frames (front and temple), removable side shields, and other parts of the glasses, goggles, or helmets. Products that are tested and approved by CSA will bear the CSA certification mark. Frames: Safety frames are stronger than street-wear frames and are often heat resistant. They are also designed to prevent lenses from being pushed into the eyes. Back to top

Comparison of Lens Materials Material Characteristics HI-Vex More impact-resistant than CR39 plastic Available with all surface treatments (coatings) 100% UV filtering Light weight Material is very clear Polycarbonate Most impact-resistant of all lens materials Lightweight Can be coated for scratch resistance Most have built-in UV radiation absorption properties Plastic (CR39) About one-half the weight of glass Resistant to solvents and pitting Trivex More impact resistant than CR39 Plastic Less impact resistant than polycarbonate UV radiation absorption properties Class High-density material resulting in heavy lenses Less impact resistant if scratched Does not meet impact criteria as set by CSA Z94.3 From: CSA Standard Z94.3.1-16 Guideline for selection, use and care of eye and face protectors, 2016 Back to top

Eye wear will protect the eye if the protection device fully covers the eye and surrounding soft tissues. If eye protection is required, establish a complete eye safety protection program, including selection, fit testing, training, maintenance, and inspection. F.I.H. Ensure your safety eye wear fits properly. Eye wear should cover from the eyebrow to the cheekbone and across from the nose to the bony area on the outside of the face and eyes. Eye size, bridge size and temple length all vary. Eye wear should be individually assigned and fitted so that gaps between the edges of the device and the face are kept to a minimum. Eye wear should fit over the temples comfortably and over the ears. The frame should be as close to the face as possible and adequately supported by the bridge of the nose. Users should be able to see in all directions without any major obstructions in their field of view. Face shields should extend below the chin and above the eyes, and should wrap around the sides of the face. CareEye and face protection devices need maintenance. Clean your devices daily and as often as necessary. Follow the manufacturer's instructions. Avoid rough handling that can scratch lenses. Scratches impair vision and can weaken lenses. Store your devices in a clean, dry place where they cannot fall or be stepped on. Keep them in a case when they are not being worn. Replace scratched, pitted, broken, bent or ill-fitting devices immediately. Damaged devices interfere with vision and do not provide protection. Replace damaged parts only with identical parts from the original manufacturer to ensure the same safety rating. Do not change or modify the protective device. Back to top

Lenses can be clear, tinted, photochromic or polarized. Each type offers various levels of ultraviolet protection, including no protection (even when coloured). Do not be fooled by the colour of the lenses. Back to top

If you are at risk for eye or face injury at work, you should wear appropriate protection. To select the proper protectors, follow the recommendations in the table below. Note: This table cannot cover all possible hazards and combinations that may occur. Examine each situation carefully and select the appropriate protector or combination of protectors. Nature of hazard/activities Flying Objects Chipping, scaling, stonework, drilling, grinding, buffing, polishing, hammer mills, crushing heavy sawing, planing, wire and strip handling, hammering, unpacking, nailing, punch press, lathework Class 1A - Spectacles Class 2A, 2B - Goggles Class 5A, 5B - Hoods Class 6A, 6D - Face shields Flying particles, dust, wind, etc. Woodworking, sanding, light metal working and machining, exposure to dust and wind, resistance welding (no radiation exposure), sand, cement, aggregate handling, painting, concrete work, plastering, material batching and mixing Class 1A - Spectacles Class 2A, 2B - Goggles Class 5A, 5B - Hoods Class 6A, 6D - Face shields Heat, sparks, and splash from molten materials Babbiting, casting, pouring, molten metal, brazing, soldering, spot welding, stud welding, hot dipping operations Class 1B - Spectacles Class 2C - Goggles Class 5C - Hoods Class 6C, 6D - Face Shields Acid and alkali handling, degreasing, pickling and plating operations, glass breakage, chemical spray, liquid bitumen handling Class 2B - Goggles Class 5B - Hoods Class 6A - Face Shields Abrasive blasting materials Sand blasting, shot blasting, shotcreting Class 2B - Goggles Class 5B - Non-Rigid Hoods Class 6A - Face Shields Glare, stray light (where slight reduction of visible radiation is required) Reflection, bright sun and lights reflected welding flash, photographic copying Class 1A - Spectacles Class 2A, 2B - Goggles Class 5A, 5B - Hoods Class 6A - Face Shields Injurious optical radiation (where moderate reduction of optical radiation is required) Torch cutting, welding, brazing, furnace work, metal pouring, spot welding, photographic copying Class 1B - Spectacles Class 2C - Goggles Class 5C - Hoods Class 6B - Face Shields Injurious optical radiation (where a large reduction of optical radiation is required) Babbiting, casting, pouring, molten metal, brazing, soldering, spot welding, stud welding, hot dipping operations Class 3 - Helmet Class 4 - Hands/feet Laser radiation Laser cutting, laser surgery, laser etching Class 2B - Goggles Electric arcs Flash/Electrical installation, electrical maintenance, troubleshooting of electrical systems, disconnecting extreme temperatures and UV radiation Working in adverse weather conditions (such as cold, heat, high winds, or lightning) Working with hand tools, powered tools and heavy powered equipment Excess vibration in the hands, arms or body from powered tools or equipment Confined spaces Noise Working at heights Working with portable ladders and fixed ladders Electrical hazards Hazardous energy control including lockout/tag out Working with cranes, hoists, and other material handling equipment Slips, trips and falls Respiratory hazards from wood dust Explosion and fire hazards from combustible dusts Stress Shift work or extended work days Working alone Struck by mobile equipment Maintaining good housekeeping Workplace violence and harassment Back to top

Scan the workplace for existing and potential hazards before work begins and take appropriate controls. Be aware that conditions can change constantly. Inspect all equipment and machinery for any defects before work begins. Keep tools and equipment in good working order. Use correct personal protective equipment and apparel, including safety footwear. Keep all work areas clear of clutter and equipment. Avoid awkward body positions or take frequent breaks. Learn safe lifting techniques. Have training before beginning any task, especially high-risk activities such as working at heights, hazardous energy control (lockout/tag out), or confined space entry. Follow a recommended shiftwork pattern, and be aware of the associated hazards. Be aware of seasonal hazards from working in extreme temperatures. Know how to get help in an emergency for working alone situations. Be aware of the emergency response plans before work begins. Back to top

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General information is available in OSH Answers or through the CCOHS person-to-person Inquiries Service. Fact sheet last revised: 2021-08-25

Scheduled maintenance - Thursday, July 12 at 5:00 PM EDT We expect this update to take about an hour. Access to this website will be unavailable during this time. Back to top

Woodworking tools can be dangerous if not used properly. Only use woodworking machines that you have been trained to use properly and safely. Read the owner's manual carefully. Make sure you understand instructions before attempting to use any tool or machine. Ask questions if you have any doubts about doing the work safely. Back to top

Always wear safety glasses or goggles, or a face shield (with safety glasses or goggles). Wear an appropriate respirator when required and follow your workplace's respiratory protection program. Wear hearing protection that is suitable for the level and frequency of the noise you are exposed to in the woodworking area. If you have trouble hearing someone speak from three feet away, the noise level from the machine is too high. Damage to hearing may occur. Use gloves to protect hands from splinters when handling wood but do not wear them near rotating blades and other machinery parts where the gloves can catch. Wear protective footwear when required. Make sure the guard is in position, is in good working condition, and guards the machine adequately before operating any equipment or machine. Check and adjust all other safety devices. Make sure the equipment is properly grounded before use. Check that keys and adjusting wrenches are removed from the machine before turning on the power. Inspect stock for nails, staples, loose knots or other defects before cutting, planing, routing, or carrying out similar activities. Make sure that all machines have start and stop buttons within easy and convenient reach of an operator. Start buttons should be protected so that accidental contact will not start the machine. A collar around the button 3 to 6 mm (1/8 to 1/4 inch) above the button is recommended. Ensure that all cutting tools and blades are clean, sharp, and in good working order so that they will cut freely, not forcing. Turn the power off and unplug the power cord (or lock out the power source) before inspecting, changing, cleaning, adjusting or repairing a blade or a machine. Also, turn the power off when discussing the work or when your attention is distracted. Use a "push stick" to push material into the cutting area. Jigs are also useful in keeping hands safe during turning procedures. Keep hands out of the line of the cutting blade. Clamp down and secure all work pieces when drilling, sanding, cutting or milling. Use good lighting so that the work piece, cutting blades, and machine controls can be seen clearly. Position or shade lighting sources so they do not shine in the operator's eyes or cause any glare and reflections. Ensure that the floor space around the equipment is sufficient to enable you to machine the size of work piece being processed safely without bumping into other workers or equipment. Use extension tables or roller supports for large workpieces. Supports should be placed on both sides (infeed and outfeed). Woodworking machines should be fitted with efficient and well-maintained local exhaust ventilation systems to remove sawdust or chips that are produced. Electric power cords should be above head level or in the floor in such a way that they are not tripping hazards. Keep work area free of clutter, clean, well swept, and well lit. Spills should be cleaned up immediately. Floor areas should be level and non-slip. Good housekeeping practices and workplace design will reduce the number of injuries and accidents from slips, trips, and falls. Keep the area free from water and moisture. Do not use electrical equipment outdoors in the rain. Always keep your attention on the work. For example, if you must talk to another person, turn off the equipment first. Back to top

Do not wear loose clothing, work gloves, neckties, rings, bracelets or other jewellery that can become entangled with moving parts. Avoid awkward operations and hand positions where a sudden slip could cause your hand to move into the cutting tool or blade. Do not stand directly behind stock that is being cut, planed, or jointed to avoid injury from kick-back. Do not remove sawdust or cuttings from the cutting head by hand while a machine is running. Use a stick or brush when the machine has stopped moving. Do not use compressed air to remove sawdust, turnings, etc. from machines or clothing. Do not leave machines running unattended (unless they are designed and intended to be operated while unattended). Do not leave a machine until the power off is turned off and the machine comes to a complete stop. Do not try to free a stalled blade before turning the power off. Do not distract or startle an operator while he or she is using woodworking equipment. Horseplay should be prohibited. It can lead to injuries. Do not perform maintenance on the machine unless all hazardous energy is controlled. Fact sheet last revised: 2025-03-13

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Exposure to wood dust has been associated with health issues due to the natural resins in wood, such as bacteria, moulds, or fungi. Wood dust is considered carcinogenic to humans (Group 1) according to the International Agency for Research on Cancer (IARC). IARC states that wood dust causes cancer of the nasal cavity (nose area) and paranasal sinuses (spaces in and around the nasal cavity) and of the nasopharynx (upper part of the throat, behind the nose). Wood dust is also associated with toxic effects, irritation of the eyes, nose and throat, dermatitis, and respiratory system effects which include decreased lung capacity and allergic reactions. NOTE: This document focuses on the health concerns associated with wood dust from untreated wood. Wood dust is also a safety concern because it can cause a fire or explosion. Please see the OSH Answers on Combustible Dusts for more information. Back to top

Wood dust is created during all stages of wood processing such as sawing, routing, sanding and other operations. Workers can also be exposed when the dust becomes airborne such as when removing dust from furniture, maintenance activities, or when cleaning equipment (e.g., emptying the bag from a dust extraction system or vacuum). Back to top

Irritation, coughing or sneezing are caused by the dust itself. Exposure to excessive amounts of wood dust may irritate the eyes, nose, and throat. Workers may also experience shortness of breath, dryness and sore throat, conjunctivitis (inflammation of the mucous membranes of the eye), and rhinitis (runny nose). Dermatitis is common and may be caused by the chemicals in the wood. For dermatitis, the skin may become red, itchy, dry, or blister. Allergic contact dermatitis may also develop. Respiratory system effects include decreased lung capacity, and allergic reactions in the lungs such as hypersensitivity pneumonitis (inflammation of the walls of the air sacs and small airways), and occupational asthma. Hypersensitivity pneumonitis may develop within hours or days following exposure and is often confused with cold or flu symptoms because it begins with headaches, chills, sweating, nausea, breathlessness, etc. Tightness of the chest and breathlessness can be severe, and the condition can worsen with continued exposure. Some hypersensitivity pneumonitis conditions may be caused by moulds that grow on the wood (and not by the wood itself). Occupational asthma may also be due to the natural resins in wood, such as bacteria, moulds, or fungi. Wood dust is considered carcinogenic to humans (Group 1) according to the International Agency for Research on Cancer (IARC). IARC states that wood dust causes cancer of the nasal cavity (nose area) and paranasal sinuses (spaces in and around the nasal cavity) and of the nasopharynx (upper part of the throat, behind the nose). Wood dust is also associated with toxic effects, irritation of the eyes, nose and throat, dermatitis, and respiratory system effects which include decreased lung capacity and allergic reactions. NOTE: This document focuses on the health concerns associated with wood dust from untreated wood. Wood dust is also a safety concern because it can cause a fire or explosion. Please see the OSH Answers on Combustible Dusts for more information. Back to top

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