

Hazard Review

- **Eye and skin irritation**
- **Lower back/upper extremity injuries**
- **Noise**

Related Safe Work Practices

- **Hazardous Materials**
- **Lifting, Body Mechanics and Ergonomics**

Personal Protective Equipment

- **Anti-vibration gloves (optional)**
- **Foot protection (waterproof work boots)**
- **Full body clothing(long shirt/pants OR disposable Tyvek)**
- **Gloves (rubber or latex)**
- **Hearing protection device**
- **Safety goggles or glasses (with side-impact shields)**

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This safe work practice has been broken down into two sections:

- A. General
- B. Specific Field Lining Techniques
 - Chalking
 - Painting with Line Striper (both LineLazer and LineDriver models)

The General section provides information that applies to just about every situation. The section on Specific Field Lining Techniques gives information that may be specific or unique to a particular technique.

A. GENERAL

Before

1. Complete required training. This includes:
 - a review of the manufacturer's operating manual.
 - training on this SWP and those listed as related. These must be completed before the initial assignment and every 2 years thereafter.

B. SPECIFIC FIELD LINING TECHNIQUES

Chalking

Before

1. Use proper lifting techniques when picking up bags of chalk (see *Lifting, Body Mechanics, and Ergonomics*). In general, it is recommended that you do not lift more than 50 pounds at one time alone. If the item is greater than 50 pounds, lift as a team with someone else.
2. Bring the line-marking device (liner) as close to the bags of chalk as possible, so as to reduce the distance they must be carried.
3. One-half a bag should suffice to fill a smaller liner, while larger liner may have room for an entire bag of chalk or more.
4. Do not overfill the liner.
5. Do not allow pieces of the paper bag to tear off into the powder, as these will likely clog the release hole. Additionally, should a clog occur, do NOT place your finger in or near the release valve, as injury may result to your fingers when trying to find or take out loose hunks of paper.
6. Do not put your face near the bag when you are opening it or when you are pouring the chalk into the liner, as a great deal of dust may be released.
7. Load chalk in areas with low wind movement. DO NOT load indoors. If available, use the liner cover as well, to limit dust release.
8. Don personal protective equipment noted above. NIOSH-approved filtering facepieces (“disposable dust masks”) may be used voluntarily for comfort purposes.

During

1. When moving the liner, do not rush so as not to injure yourself.
2. Take the most direct route when operating the liner, always remembering to return the lever to the “off” or “closed” position when not intending to draw a line.
3. Keep a measured and steady pace when making lines on the field.

4. Try not to place more chalk than is necessary in the liner for the task at hand. If too much chalk is left in a liner, it can become damp and harden the unit, making it more difficult to use the next time.

After

1. In response to a spill, do the following:
 - Do NOT dry sweep or vacuum up chalk spills in storage sheds, closets or clubhouses.
 - Spill clean-up must be done using wet-methods. Lightly wet the material with water then use a squeegee or broom to carefully gather up the material, then dispose of as conventional garbage.
 - Follow this with a wet-mopping or wiping of the floor.
2. Store the chalk as follows:
 - All surfaces should be kept visibly free of chalk.
 - Broken bags should be placed into a secondary container (e.g. plastic bag or garbage can).
 - Place empty bags of chalk into large refuse containers so as to prevent exposure to other staff (e.g., gardeners emptying the garbage cans). If you must place empty bags in to a garbage can, be sure to place the empty bag into a garbage bag and seal/knot the top BEFORE placing into a garbage can.
3. Discourage patrons from actively handling chalk lines, as it may irritate skin or mucous membranes.

Painting with Line Striper

Before

1. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedures in the operator's manual.
2. Before using, check:
 - Hoses, tubes, and couplings for damage. Replace worn or damaged parts immediately.
 - All fluid connections to ensure they are tight.
3. Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).

During

1. Use equipment only for its intended purpose.
2. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
3. Keep the public from the work area as needed using barricades or cones.
4. Keep work area free of debris, including solvent, rags, and gasoline.
5. Do not:
 - Step on forward/reverse pedals or make quick turns (LineDriver only).
 - Operate the liner on slopes greater than 15 degrees.
 - Operate the liner in an enclosed area.
 - Carry passengers.
 - Operate equipment with protective guards or covers removed.
 - Fill fuel tank while engine is running or hot; shut off engine and let it cool.
 - Touch hot fluid or equipment.
 - Point gun at anyone or at any part of the body.
 - Put your hand over the spray tip.
 - Stop or deflect leaks with your hand, body, glove, or rag.
 - Spray without tip guard and trigger guard installed.
 - Exceed the maximum working pressure or temperature rating of the lowest rated system component.
 - Alter or modify equipment.
 - Kink or overbend hoses or use hoses to pull equipment.
6. Use only grounded hoses while working.
7. When using a ground hose, hold the gun firmly to side of grounded pail when triggering into pail.
8. If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.
9. Keep a fire extinguisher in your work area at all times.
10. High pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate treatment.**
11. The battery may leak, explode, cause burns, or cause an explosion if mishandled:
 - Use the battery type specified for use with the equipment.

- Sparking can occur when changing batteries. Only replace the battery in a non-hazardous location, away from flammable fluids or fumes.
- Handle and dispose of battery properly – do not short circuit, charge, force over discharge, disassemble, crush, penetrate, incinerate, or heat the battery to a temperature exceeding 185 degrees F (85 degrees C).

After

1. Engage trigger lock when not spraying.

References:

1. Graco Inc. 311020L Operator's Manual - LineLazer IV 3900, 5900 airless Line Stripers. Chinese Patent ZL03802251.6, Minneapolis, MN, 2005.
2. Graco Inc. 312540C Operator's Manual - LineDriver HD Models: 262004, 262005. Minneapolis, MN, 2005.

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