



HOME BASED STRENGTHENING ROUTINE

Regularly performing these preventative strengthening and range of motion exercises can help to reduce the risk of injuries at work.

This resource provide	s descriptions for the	following exercises:
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- Side Bridge with Leg Lift
- Stability Squat
- Plank and Mountain Climbers
- Arm Raises
- Directional Scapular Strengthening
- Bear Crawl

Refer to Video for more information.





SIDE BRIDGE WITH LEG LIFT

Purpose: Improve pelvic stability and strengthen the gluts.

Hold Side Bridge 30 seconds then complete 10 leg lifts.

- Lie on the side with elbow positioned under shoulder and lower knee bent.
- Prop yourself on the elbow to go into a side plank position and hold, keeping torso, hips and knee in a straight line.
- Squeeze your gluteal muscles to stabilize at the pelvis.
- Hold this position for 30 seconds.
- From this position, lift the top leg to abduct the hip. Keep foot pointed forward and leg directly over the other leg, not in front.
- Compete 10 leg lifts to the side.
- Ensure your pelvis does not drop or tilt backwards during





Progression:

- Fully extend bottom leg so that lying on side from foot to elbow.
- Hold this side plank for 30 seconds then complete 10 leg lifts to the side









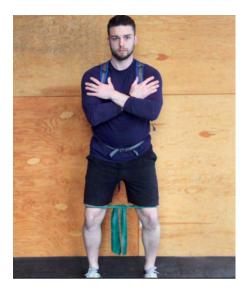
STABILITY SQUAT

Purpose: Improve stability of the lower limb. Strengthen the gluts, and guads.

- Complete 25 squats.
- Wear backpack containing 50 lbs to replicate weight of lifting rods and tubes.
 - Stand with your feet facing forward at hips width.
 - Tie elastic around your knees and squeeze buttocks together to turn your knees outward.
 - Align Knee cap with 2nd or 3rd toe.
 - Lower your body to a squat position by bending your hips and knees keeping your back slightly arched (matching the calf angle).

Progressions:

- Add weight to backpack (80lbs).
- Increase squats reps goal to reach 30-35.
- Improve quality of movement by reducing knee shakiness while squatting.









PLANK AND MOUNTAIN CLIMBERS

Purpose: Improve pelvic stability along with strengthening the hip flexors and lower abdominals.

- Ensure a neutral lumbar spine lordosis (inward curvature of the lower back) is sustained.
- Avoid rotating at pelvis when bringing leg forward.
- Keep shoulders back and down to improve scapular stability.
 - Start in a plank position with elbows positioned slightly behind shoulders.
 - Keep shoulders down and back.
 - Recruit the deep core muscles by contracting 30%.
 - Avoid allowing hips to dip down or come up. A neutral position should be sustained to ensure a normal lumbar lordosis is held.
 - Hold plank for 10 seconds.
 - Bring one knee towards the same sided elbow.
 - Ensure to sustain neutral lumbar lordosis by not letting the hips drop down or come up.
 - Do not touch moving foot to the floor during movement.
 - Return foot back to starting position and repeat on other side.
 - Complete 30 climbers per side in a plank position.

Progression:

• Increase plank hold (i.e. 30 seconds) prior to starting mountain climbers.









ARM RAISES

Purpose: To improve shoulder stability with overhead lifting

- Complete 3 sets of 15 arm raises
- Start with hands at waist height and apply a steady pull on both ends of the elastic
- Squeeze the shoulder blades together, ensuring the shoulders remain back and down throughout the exercise
- Keep your chin slightly tucked and slowly raise your arms up above head level maintaining the stretch on the band
- Avoid slouching or raising the tops of the shoulders upwards during this task while raising the arms.
- If struggling, try this exercise with your back touching the wall to provide feedback to maintain a good shoulder posture of being back and down.











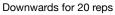
DIRECTIONAL SCAPULAR STRENGTHENING

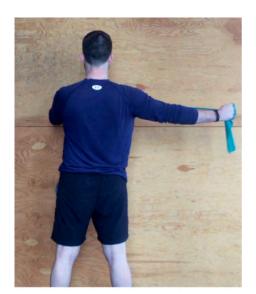
Purpose: Improve scapular strength and shoulder girdle position when performing upper body tasks such as reaching for heavy tools and hammering.

- Ensure to keep shoulders down and back and chin slightly tucked to recruit the scapular stabilizers and optimize shoulder girdle positioning.
 - Stand in a good upright posture facing the wall.
 - Apply a Chin Tuck.
 - Keep shoulders back and down. Engage muscles at the bottom of shoulder blades to hold position.
 - Maintaining that position, raise both arms to chest level.
 - Hold one arm steady while you slide the other hand against the wall out into the short arc movements as below:









Straight Out for 20 reps



Upwards for 20 reps

Progression:

• Stand back a foot so hands are not resting on wall and repeat the tasks.





BEAR CRAWL

Purpose: Improve scapular and pelvic stability while moving in multiple directions.

- Ensure shoulders and kept down and back. Shoulder blades should not protrude upwards.
- Keep the deep core muscles contracted 30%. Sustain a neutral lumbar lordosis posture.
 - Tie a theraband between the hands at shoulder width with moderate tension.
 - Start on hands and toes. Hips and knees can be slightly bent.



- Move one arm upwards and followed by the same side leg. Repeat this on the other side.
- Complete 10 crawls forward and then backwards.



- Complete 10 crawls side to side.
- Moving arm to the side followed by the same side leg.

