



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

All UNC Shops

JOB SAFETY ANALYSIS TOPIC:

Trion Turf Equipment Service Lift



Title	Work Task	Hazards	Controls
Pre plan the work	<ol style="list-style-type: none"> 1. Ensure equipment does not exceed maximum weight requirements 2. Consider the optimal position for the vehicle 3. Select proper Personal Protective Equipment (PPE) 	<ul style="list-style-type: none"> • Vehicles exceeding maximum weight requirements could cause the lift to work improperly • Improper position could create an unbalanced condition 	<ul style="list-style-type: none"> • Read vehicle user manual to determine weight • Training on use of Trion lifts • PPE training • Ensure to use the Operator Certification Check List before operating lift
Before the job	<ol style="list-style-type: none"> 4. Don PPE 5. Check lift for broken or damaged parts 6. Remove all occupants or loose items from the vehicle 7. Make sure tires are fully inflated 	<ul style="list-style-type: none"> • PPE donned improperly could result in injury • Damaged or broken parts could cause the lift to work improperly • Occupants or items in the lift could create fall hazards if lift is raised with them in it • If tires are not fully inflated the vehicle could slip through the forks 	<ul style="list-style-type: none"> • PPE training • Review lift manual and visually inspect lift • Check vehicle before lifting for any loose items or equipment, remove occupants • Use a tire gauge and refer to manual for proper PSI
Site Preparation	<ol style="list-style-type: none"> 8. Ensure workstation is clear of obstructions, debris, grease, and oil 	<ul style="list-style-type: none"> • An unclear workstation creates slip/trip/fall hazards or the lift could malfunction 	<ul style="list-style-type: none"> • Visually inspect work station, use a degreaser to remove any oil or grease

Lifting the equipment	<ol style="list-style-type: none"> 9. Load the vehicle carefully by backing between the tool bars onto the rear wheel tray 10. Slide the wheel forks around the remaining wheels 11. Fully engage wheels in the wheel forks and wheel tray so raised equipment does not become unstable or fall 12. Raise the equipment by pressing the green button on the control panel 13. Lift vehicle to desired height and lower until it rests on the first available safety lock 	<ul style="list-style-type: none"> • Driving the vehicle too fast could cause injury in a crash • Vehicle could become unstable for various reasons and fall during servicing, wheels not engaged, uneven equipment, etc. 	<ul style="list-style-type: none"> • After vehicle is lifted 6" off the ground shake the vehicle to ensure stability • If an unbalanced condition is created immediately clear from under the lift and refer to the manual for instructions
Performing work on the equipment	<ol style="list-style-type: none"> 14. Service the vehicle 15. Remove any damaged product from service immediately 	<ul style="list-style-type: none"> • If a heavy component is being removed or added it is possible to create an unbalanced condition 	<ul style="list-style-type: none"> • If an unbalanced condition is created immediately clear from under the lift and refer to the manual for instructions
Lowering the equipment	<ol style="list-style-type: none"> 16. Raise the lift off the safety locks then press the red button until the vehicle is completely lowered 17. Move the wheel forks to the outermost extension before driving the vehicle out of the lift area 	<ul style="list-style-type: none"> • An area under the lift that is unclear can create crushing hazards 	<ul style="list-style-type: none"> • Clear area around and under the lift before lowering. • Warn bystanders to clear before lowering

Training	Employees must receive training on this JSA, PPE, and vehicle lifts. EHS website at http://ehs.unc.edu/training/self-study/	Supervisor is responsible for ensuring the employee reviews the JSA and the EHS website guidelines. .
Created	Taylor Moore, March 15, 2019	
Referenced Material	EHS Website; http://trionlifts.com/pdfs/TrionManual.pdf	
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