

KCS INTERNATIONAL
Job Description
Gel Repair I- Major Repair
Position number: 701- Grade 4-6

Position summary: Ability to handle all gel and glass repair large and small, with a high quality level in a highly efficient manner to include marking, sanding, routing, filling, glassing, buffing, spraying, and any other technique required to complete assigned work. This person should be able to assign and monitor work of other gel repair people in the absence of the lead person.

Principal Duties

1. Apply proper repair procedures to defects
2. Perform sanding/ grinding with various equipment:
 - a. Perform hand sanding of areas containing gel coat/ fiberglass surfaces.
 - b. Perform buffing (buffer weighing 7-12#) of areas containing gel coat/ fiberglass surfaces, by holding buffer with both hands. Max time 5-15mins for approx 6 hours per day. Varying heights between knees to above head. May use ladders of 8 or 12 steps with B railings to reach heights; steps are 7 ½in width, 29in long; push force 28-44*; pull force 25-35* to move stairs. Moveable platform at height 3-5ft, length of platform 8ft also available; pull force 119*; push force 51* to move surface. Carry buffer under armpit when ascending/ descending ladder, allowing for 1 hand to hold railing.
 - c. DA- palm sander- holding with one hand; weight 2# with moderate vibration, max time 5-15 mins for large areas of sanding; 2 mins on average.
 - d. Mini Buffer held with one hand; weight 2, length of handle 5 ½ in. Perform 1-2 mins average.
 - e. Mini grinder held with one hand; weight 3#, used less than 10% of time
 - f. Rotator/ pencil rotator weight 2# Min vibration noted; less than 25% of time.
 - g. Grinder weighing 3lbs; length of handle 5in
3. Carrying various items with 1 hand, walking max 200 ft:
 - a. Acetone, 2 size containers with large one weighing 8# with handle on container. Used to clean area. Will place amount into smaller containers and spray bottles
 - b. Water bucket weighing 5#, used for wet sanding and gel down
 - c. Speed patch container
 - d. Gel coat container weighing 6#
 - e. Resin putty weighing 54#. Container is delivered to area by another employee with hand cart. When working with resin, place amount needed into smaller container and mix with mill fiber and snow.
4. All hard tops are on dollies, varying upon size will determine how many people needed.
 - f. 54ft requires 5-6 people assist

- g. 4 wheel wood upside down dolly with 350 hard top on it, move with 1 person; push force 70*, pull force 53*
- h. Dolly right side up with hard top on it, move with 1 person; push 44*, pull 84*.

Overhead hoist used to flip hard tops; use 2-3 people to complete task. Reach to controls 4ft

- 5. Vacuum in area to clean up sanding residue. Push force 11*, pull force 10*
- 6. Supply cart moved to work area. Push force 10*, pull force 10*.
- 7. Glass work: grind off gel on fiberglass surfaces, hand roll and wet area to fix cracks.
- 8. Scales: measure fills, gel, sprays, resin, putties
- 9. Chemical mix recipes: gel, catalyst, speed patch, resin, putties
- 10. Knowledge of filling techniques in areas throughout the boat.
- 11. Utilizing spray gun by holding cup of gel with one hand or 2-3 fingers; using trigger with index finger or varying fingers; average 25% of time
- 12. Clean parts of boat from standing or sitting at height of 1- 7 ½ ft. May stand on solid boxes to increase ability to reach top. Appox 30 mins of time reaching overhead.
- 13. Perform ambulating up/ down stairs (6 stairs with B hand rails to reach deck platform); appox 50% of time up/ down stairs/ ladders

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Functional Job Description

Company Address: 804 Pecor St Oconto, WI 54153	
Company Phone: 920-834-2211	Evaluation Date: 6/12/14
Persons present during evaluations: Sue Calewarts	
Shift: 1 shift- 5am-3:30pm 4 days/week	Breaks: 15 min and 35 min
Overtime: Yes	
Hours worked: occasional Friday (4-9 hrs)	
Social Conditions -with others and around others	
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Equipment Used: Buffer, grinder, sand paper, scales, chemicals (catalyst, acetone, speed patch, gel, resin, all purpose cleaner, alcohol), fillers, DA- hand sander, mini buffer, rotator, spray gun, rags, compounds, tape, dye, sharp shooter, xylene, all purpose cleaner, soap, spray paper, plastic, utility knife, screwdriver, drill, driver.	
Protective Equipment Used: Safety glasses, gloves, liners/ rubber gloves, dust masks, protective clothing- paper type.	

Environmental Conditions:	
Indoors: 100%	Outdoors: 0%
Temperatures: Mild Average Temperature: 55-75 degrees Fahrenheit	
Lighting Type: Overhead, fluorescent	
Noise: Minimum/ moderate	Vibration: Hand tools
Fumes: Dust, chemicals, filler, gel coat	
Hazards: Cramped space when inside boats; awkward postures when accessing boats for cleaning/ gel fill; demands for lifting/bending when filling areas; repetitive motion at elevated heights or extended distances; fast pace at times when boats are moving off line; and concrete flooring. Dust mask for gel coating recommended due to dust.	

Gel Repair I Major repair						
Activity	Phys. Job Reqs.			Ess. Funct.	Comments	
Work Day (hrs)	10 hrs			Yes		
Sit (hrs)	15-30 mins; 1-2 hrs/ day			Yes	When filling small, tight areas like heads	
Stand (hrs)	45mins to 1 hour; 7-8 hrs/day			Yes	Standing on ladders, floor, inside boats.	
Walk (hrs)	5-10minutes;1-2 hrs/ day			Yes	Up to 500 ft; avg 25 ft	
Key						
Occasional = O		Frequent = F		Continuous = C		Not Applicable = N
Less than 0 to 2.5 hrs (1-33%) or 1-32 reps.		2.5 to 5.5 hrs (34-66%) 33-200 reps		More than 5.5 hrs (67-100%) >200 reps		Not at all or minimally occasionally
Activity	N	O	F	C	Ess. Funct.	Comments
Bend/Stoop				X	Yes	Buffing various areas of boat; working inside boat
Reach – Bilateral				X	Yes	Buffing/ filling areas of boat
Squat		X			Yes	Filling areas in head/ bottom of boat
Twist		X			Yes	Standing on ladder and buffing
Crawl		X			Yes	Access parts of boat
Climb Stairs		X			Yes	Ladders, steps up/ down platform
Kneel		X			Yes	Filling areas inside cabin
Balance				X	Yes	Ladders, platforms
Weights are in pounds unless otherwise stated.						
Above shoulders - Bilateral			12#		Yes	Holding buffer with one or both hands
Chair to waist- Bilateral			12#		Yes	Holding buffer with one or

						both hands
Chair to floor - Bilateral			12#		Yes	Holding buffer with one or both hands
Push *		51*	44*/ 28*		Yes	Pushing platform/ ladders
Pull *		119*	25/ 35*		Yes	Pulling platform/ ladders
Carry – R/L		12#			Yes	Hand Sander; buffer under arm
Carry - Bilateral		12#			Yes	Buffer from work area to boat
Foot		X			Yes	Stepping on/ off boat
Hand – Light Grasp R/L		X			Yes	Holding writing utensils
Hand – Firm Grasp R/L				X	Yes	Holding hand tools
Hand – Fine Grasp R/L			X		Yes	Holding pencil grinder
Head/Neck – Static			X		Yes	Looking at filler areas
Head/Neck – Flexion			X		Yes	Looking around boat for filler areas/ buffing
Head/Neck – Rotation				X	Yes	Looking around boat for filler areas/ buffing

* Push and pull measurements are taken with a force dynamometer and are not only dependent upon the weight of the item but also upon friction, wheel size, surface evenness, etc. The readings are an approximate measurement of the amount of force required to perform the job.