



Disability Services
Safety and Claims Management
Department of Executive Services
Human Resources Management Division
P.O. Box 80283
Seattle, WA 98108
(206) 205-8575
(206) 296-0514 FAX

JOB ANALYSIS

Job Title:	Marine Deckhand	DOT Title:	Deckhand
SVP:	2	DOT #:	911.687-022
Location of Analysis:	Pier 50, Seattle, WA (work location) 201 South Jackson, 8 th Floor Seattle, WA 98104 (administrative location)	Name of Employee:	
Analyst:	Kyle Pletz, VRC, CDMS	JA Source:	Laura Merritt
Presenting VRC:		Employer Contact:	Ron Panzero
Date Analysis Completed:	2/28/17	Supervisor Contact Information	Phone: 206-263-5039 E-mail: ron.panzero@kingcounty.gov

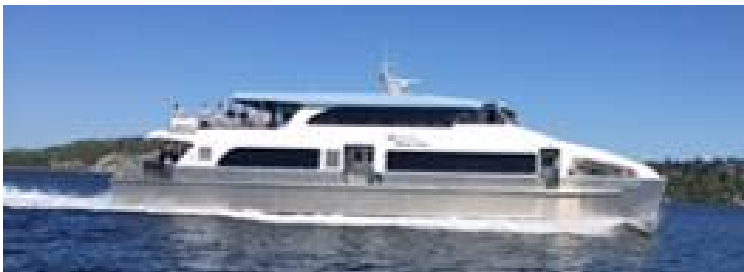
☒ On-Site ☐ Interview ☐ Representative

JOB DUTIES:

Essential Functions according to the employer:

All King County jobs require ability/essential function to:

- Demonstrate predictable, reliable, and timely attendance.
- Follow written and verbal directions to complete assigned tasks on schedule.
- Read, write, and communicate in English & understand basic math.
- Learn from directions, observations, and mistakes and apply procedures using good judgment.
- Work independently or as part of a team and interact appropriately with others.



Provide customer service, loading and unloading passengers, handling dock lines and gangways, standing watch while underway, performing safety and security sweeps, and performing general maintenance and cleaning duties aboard a ferryboat.

1. Assist passengers in boarding and departing the ferry; ensure passenger safety; answer questions and provide information.
2. Handle dock lines; cast off lines upon embarking and secure lines upon docking.
3. Keep decks clean and free of debris and ice; paint deck and superstructure of vessel; clean vessel furnishings, decks, restrooms, bulkheads, overheads and windows as needed; empty vessel trash and separate items for recycling; wash down vessel exterior at the end of each shift.

**King County**

King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

4. Stand security, lookout and wheel watches as directed by Captain; conduct passenger and vessel safety tours while underway.
5. Move passenger loading ramps into place and operate controls to permit entry and exit of passengers.
6. Assist in passenger ticketing and fare collection, and maintaining records of passenger counts and revenues collected.
7. Assist in fueling and replenishment of the vessel; perform maintenance duties as directed by the Captain.
8. Participate in all required training and drills; assist in all emergency procedures.
9. Understand proper use of fire extinguishers, fire hoses, life rafts, preservers and water lights; ensure each item is maintained in working order.

EXPERIENCE, QUALIFICATIONS, KNOWLEDGE, SKILLS:**MINIMUM QUALIFICATIONS:**

- Knowledge of applicable regulations, emergency and safety procedures, seamanship, navigation and related areas that qualify for designation as Able Seaman by the USCG
- Knowledge of proper use of fire extinguishers and life-saving equipment
- Knowledge of safe lifting techniques
- Knowledge of safe work practices.
- Communication skills
- Customer service and interpersonal skills
- Skill in effectively handling multiple competing priorities
- Skill in working with a variety of individuals from diverse backgrounds
- Skill in establishing and maintaining effective working relationships
- Ability to respond safely, effectively and expeditiously during an emergency.

NECESSARY SPECIAL QUALIFICATIONS:

- A valid United States Coast Guard (USCG) Merchant Mariner's Document (MMD) or Merchant Mariner's Credential (MMC) rated as an Ordinary Seaman (OS) and possession of a valid Transportation Worker's Identification Card issued by the Transportation Security Administration (TSA).
- May be required to work a split shift
- Ability to lift and carry items weighing up to 50 pounds
- Additional licenses, certifications and other requirements determined necessary to meet the business needs of the employing unit may be required.

Machines, Tools, Special Equipment, Personal Protective Equipment Used:

Clipboard, cart, counter, boat hook, ramps, wheel-stop, lines, binoculars, lifejacket, bumpers, brush, vacuum, hoses, fare box, vaults, tickets, orca cards, Portable Fare Transaction Processor (PFTP), ticket vending machine, broom/dustpan, brochures, paper supplies, cases of paper products, lost and found items.

PHYSICAL REQUIREMENTS

Frequency Scale	Strength	Work Pattern	
N = Never	<input type="checkbox"/> Sedentary	<input checked="" type="checkbox"/>	Full-time
S = Seldom (1-10 %, up to 48 min)	<input type="checkbox"/> Light	<input checked="" type="checkbox"/>	Part-time
O = Occasional (11-33%, 48 min. – 2 hr 25 min)	<input checked="" type="checkbox"/> Medium	<input checked="" type="checkbox"/>	Seasonal
F = Frequent (34-66%, 2 hr 26 min – 5 hr 35 min)	<input type="checkbox"/> Heavy	*	Hours Per Day
C = Constant (67-100%, more than 5 hr 35 min)	<input type="checkbox"/> Very Heavy	*	Days Per Week



King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

This is classified as a MEDIUM job by the US Department of Labor.

*There are multiple schedules for this position which can change per season (peak and winter), route (West Seattle vs. Vashon), and daily (based upon sailing schedule). Schedules can also vary based upon special events. Employees may have to work split schedules. Schedules are bid upon in order of seniority. There are full time, part time and term limited temporary positions. Exact schedules can be obtained in spreadsheet format.

PHYSICAL DEMANDS		FREQUENCY					ACTIVITY DESCRIPTION	
	% Time	N	S	O	F	C		
Sitting	5-10			X	X		Up to 22min/time up to 2-4hrs/day while recording/reviewing passenger counts, revenues, payment types, etc.). Can sit during some crossings as well; sits while performing lookout duties in the wheelhouse.	
Standing					X		Up to 30 min/time up to 5hr/day while providing customer service, ticket collection, ORCA pass scanning and performing lookout duties in the wheelhouse.	
Walking				X			Up to 10 min/time up to 2.5hrs/day while traversing a moving vessel as well as solid and floating dock (600’); vacuuming, taking trash off of vessel (500’). Walking can be performed on a floating dock as well as a passenger ferry that are swaying due to waves; some areas do not have railings so there are exposed heights on edges of docks and vessels. Employee may also need to walk on a bow line multiple times per day when traversing between the vessel and the dock. See pictures.	
Lifting floor – waist	N	S	O	F	C	lbs.	40 lbs. for paper supplies and 40 lb. two person lift of 80 lb. fare box. 45 lb. for bumpers. 1-12 lbs. for vaults, backpack vacuum and brochures.	
		40-45	1-12					
Lifting waist–shoulder	N	S	O	F	C	lbs.	40 lbs. for paper supplies and 40 lb. two person lift of 80 lb. fare box. 45 lb. bumpers. 1-12 lbs. for vaults, backpack vacuum and brochures. 15-30 lbs. trash bags. 2 lbs. for PFTP.	
		40	1-10 15-30	2				
Lifting above shoulder	N	S	O	F	C	lbs.	1-10lbs for PFTP, vaults and brochures.	
		1-10						
Carry (Dist.)	N	S	O	F	C	1-10 lbs. 15-30 lbs.	Up to 5min/time, 2hrs/day of 2-12lbs for vaults, backpack vacuum, PFTP and brochures. 15-30 lbs. when removing trash from vessel.	
		15’	300’					



King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

Pushing/ Pulling	N	S	O	F	C	Minimal	Up to 500' when removing trash from vessel; moving small and large passenger ramps (50-100lbs). 1-2lbs while sweeping. 15lbs when moving fare box (attached to hand truck). Pulls on lines (50lbs) when securing vessel to dock every run. 100lbs to raise/lower West Seattle passenger ramp. Also pushes/pulls wheelchairs on ramps up to 80' with 80lbs of force
		80-100 60	15 20-50			lbs. force	
	N	S	O	F	C		
Climbing				X			Up to 2min/time up to 3 hrs./total. Up to 14 stairs at a time or up to 10' at a time on a ladder (8 rungs to engine room or up to roof of vessel). Repeatedly climbs between vessel and dock to secure/unsecure vessel every trip. Climbs 12-14 steps to the wheelhouse each run. Climbs in to captain chair. *see picture
Balancing					X		Work is performed on a floating dock as well as a moving passenger ferry that are swaying due to waves; some areas do not have railings so there are exposed heights on edges of docks and vessels with water below. Inspects engine rooms while around hot engines while in a moving vessel. See pictures.
Stooping / Bending			X				Up to 10min/time up to 2.5hrs/day inspecting engine rooms and securing lines.
Twisting		X					Up to 10min/time up to 2.5hrs/day while inspecting engine rooms and securing lines.
Squatting / Kneeling		X					Up to 1min/time up 30min/day while inspecting engine rooms and securing lines.
Crawling		X					Up to 30sec/time up to 2min/day while inspecting engine rooms. This is performed around hot engines in a moving vessel.
Foot Controls	X						
Reaching (Level) Forward Below Waist Above Shoulder				X			Up to 10min/time up to 5hrs/day while recording passenger counts, revenues, payment types, etc. as well as manipulating trash bags, vaults, fare box, vacuum, hoses, lines, etc.
			X				Up to 5min/time up to 2.5hr/day while stocking supplies, loading/unloading trash, securing lines and vacuuming.
			X				Up to 2min/time up to 1hr/day while stocking supplies, loading/unloading trash, placing lines on top of pilings.



King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

	N	S	O	F	C	
Handle/Grasp				X		Up to 20min/time up to 5hrs/day when holding on to railings as well as when manipulating trash bags, vacuum, PFTP, hoses, vaults, cart, fare box, lines and boat hook.
Fine Finger Manipulation			X			Up to 15min/time up to 2hrs/day when collecting and recording fares; manipulating documents, brochures.
Hand Controls			X			Up to 2min.time up to 2hrs/day when operating the hand crank for the passenger ramp.
Repetitive Motion	X					Body part: Cycles/hr.
	N	S	O	F	C	
Vibratory Tasks	X					
Talking					X	Interacting with coworkers and providing customer service to the general public.
Hearing					X	Interacting with coworkers and providing customer service to the general public.

Visual:

Interacts with the general public which may include agitated or intoxicated persons. Traverses floating docks and vessels with exposed heights around water's edge on a continuous basis.

ENVIRONMENTAL CONDITIONS	FREQUENCY					ENVIRONMENTAL CONDITIONS	FREQUENCY				
	N	S	O	F	C		N	S	O	F	C
Exposure to Weather				X		Noise Intensity			X		
Extreme Cold			X			Atmospheric Conditions			X		
Extreme Hot			X			Exposed Heights					X
Wet and / or Humidity					X	Exposure to Electricity	X				
Proximity to Moving Mechanical Parts					X	Exposure to Toxic / Caustic Chemicals		X			
Exposure to Explosives	X					Exposure to Radiation		X			

Other: Work can be performed on a floating dock or vessel which may include metal or metal grating as well as moving, slick, oily or wet surfaces. Inclement weather can produce cold, wet and or icy conditions. The employee also works around unprotected heights on a floating dock and vessel and has the potential to fall overboard if balance is not maintained continuously.



King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

Analyst's Comments:

Work is performed on a floating dock as well as a moving passenger ferry that are swaying due to waves; some areas do not have railings so there are exposed heights on edges of docks and vessels with water below; constant balancing is essential for safety. Employee climbs in to captain chair, manipulates passenger ramps with 50-100lbs of force. Traverses engine rooms and climbs on/off of vessel.

Possible Employer Modifications:

Handle by bow door to assist in entering/exiting vessel. See picture above of employee stepping on vessel.

Note: The information for this job analysis was gathered by either on-site observation, interview and / or is representative of the labor market as indicated on page one. Additional data may have been obtained from standardized industry resources such as the DOT, GOE, COJ, OOH, WOIS and O-NET. On occasion, practicality and feasibility prevent the direct observation and/or gathering of objective, quantifiable data. For this reason, a "best estimate" may have been used.

Analyst:

Presenting VRC signature:

2/28/17

Vocational Consultant

Date

Vocational Consultant

Date

Employer Verification:

Employee Verification: (optional)

Name

2/28/17

Date

Name

Date



King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

MEDICAL PROVIDER:

- ☐ I agree that the employee can perform the physical activities described in this job analysis and can return to work.

State date employee is released to return to work if different from today's date _____

- ☐ I agree the employee can perform the described job but only with modifications (describe in comments section). Modifications are needed on a permanent ☐ or temporary ☐ basis.

- ☐ The employee **temporarily** cannot perform this job based on the following physical limitations:

Anticipated release date: _____

Treatment plan: _____

- ☐ The employee is **permanently** restricted from performing the physical activities described in this job analysis based on the following physical limitations (state objective medical findings):

Comments:

Signature

Date

Print Name

- | | | |
|--|---|---|
| <input type="checkbox"/> Attending Physician | <input type="checkbox"/> Consulting Physician | <input type="checkbox"/> Pain Program Physician |
| <input type="checkbox"/> IME Physican | <input type="checkbox"/> PCE Therapist | <input type="checkbox"/> OT / PT Therapist |
| <input type="checkbox"/> PEP Physician | | |



King County

King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

JOB ANALYSIS ADDENDUM

For Sprit of Kingston Vessel

PHYSICAL DEMANDS		FREQUENCY					ACTIVITY DESCRIPTION	
	% Time	N	S	O	F	C		
Sitting	5-10		X				Up to 10min/time up to 45min/day while recording/reviewing passenger counts, revenues, payment types, etc.). Can sit during some crossings as well.	
Standing					X		Up to 30 min/time up to 5hr/day while providing customer service, ticket collection, ORCA pass scanning and performing lookout duties in the wheelhouse.	
Walking				X			Up to 10min/time up to 2.5hrs/day while traversing a moving vessel as well as solid and floating dock (600"); vacuuming, taking trash off of vessel (500'). Walking can be performed on a floating dock as well as a passenger ferry that are swaying due to waves; some areas do not have railings so there are exposed heights on edges of docks and vessels. Employee may also need to walk on a bow line multiple times per day when traversing between the vessel and the dock. See pictures.	
Lifting floor – waist	N	S	O	F	C		lbs.	40 lbs. for paper supplies and 40 lb. two person lift of 80 lb. fare box. 45 lb. for bumpers. 1-12 lbs. for vaults, backpack vacuum and brochures.
		40-45	1-12					
Lifting waist–shoulder	N	S	O	F	C		lbs.	40 lbs. for paper supplies and 40 lb. two person lift of 80 lb. fare box. 45 lb. bumpers. 1-12 lbs. for vaults, backpack vacuum and brochures. 15-30 lbs. trash bags. 2 lbs. for PFTP.
		40	1-10 15-30	2				
Lifting above shoulder	N	S	O	F	C		lbs.	1-10lbs for PFTP, vaults and brochures.
		1-10	50-100					
Carry (Dist.)	N	S	O	F	C		1-10 lbs. 15-30 lbs.	Up to 5min/time, 2hrs/day of 2-12lbs for vaults, backpack vacuum, PFTP and brochures. 15-30 lbs. when removing trash from vessel.
		15'	300'					



King County

King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

Pushing/ Pulling	N	S	O	F	C	Minimal	Up to 500' when removing trash from vessel; moving passenger ramps (50lbs) 1-2lbs while sweeping. 15lbs when moving fare box (attached to hand truck). Pulls on lines (50lbs) when securing vessel to dock every run. 100lbs to raise/lower West Seattle passenger ramp. Also pushes/pulls wheelchairs on ramps up to 80' with 80lbs of force
		1-25 100	50 15				
							Lbs. force
Climbing				X			Up to 2min/time up to 3 hrs./total. Up to 12 stairs at a time or up to 10' at a time on a ladder (in to engine room or up to roof of vessel). Repeatedly climbs between vessel and dock to secure/unsecure vessel every trip. Climbs 12 steps to the wheelhouse.
Balancing					X		Work is performed on a floating dock as well as a moving passenger ferry that are swaying due to waves; some areas do not have railings so there are exposed heights on edges of docks and vessels with water below. Inspects engine rooms (ceiling height of 4'7" and confined space) while crawling around hot engines while in a moving vessel. See pictures.
Stooping / Bending			X				Up to 10min/time up to 2.5hrs/day inspecting engine rooms (ceiling height of 4'7") and securing lines.
Twisting		X					Up to 10min/time up to 2.5hrs/day while inspecting engine rooms (ceiling height of 4'7") and securing lines.
Squatting / Kneeling		X					Up to 10min/time up to 2.5hrs/day while inspecting engine rooms (ceiling height of 4'7") and securing lines.
Crawling		X					Up to 2min/time up to 10min/day while inspecting engine rooms (ceiling height of 4'7"). This is performed around hot engines in a moving vessel.
Foot Controls	X						
Reaching (Level) Below Waist Above Shoulder	Forward			X			Up to 10min/time up to 5hrs/day while recording passenger counts, revenues, payment types, etc. as well as manipulating trash bags, vaults, fare box, vacuum, hoses, lines, etc.
			X				Up to 5min/time up to 2.5hr/day while stocking supplies, loading/unloading trash, securing lines and vacuuming.
			X				Up to 2min/time up to 1hr/day while stocking supplies, loading/unloading trash, placing lines on top of pilings.
Handle/Grasp				X			Up to 20min/time up to 5hrs/day when holding on to



King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

						railings as well as when manipulating trash bags, vacuum, PFTP, hoses, vaults, cart, fare box, lines and boat hook.
Fine Finger Manipulation			X			Up to 15min/time up to 2hrs/day when collecting and recording fares; manipulating documents, brochures.
Hand Controls			X			Up to 2min.time up to 2hrs/day when operating the hand crank for the passenger ramp.
Repetitive Motion	X					Body part: Cycles/hr.
	N	S	O	F	C	
Vibratory Tasks	X					
Talking					X	Interacting with coworkers and providing customer service to the general public.
Hearing					X	Interacting with coworkers and providing customer service to the general public.

Visual:

Interacts with the general public which may include agitated or intoxicated persons. Traverses floating docks and vessels with exposed heights around water's edge on a continuous basis.

Analyst's Comments:

The following physical activities are **NOT** required on the Spirit of Kingston but are required on other vessels:

- Lift 55 lb. bow door overhead approximately 60x per day; lifting force can increase twofold with wind and rocking vessel (100+lbs).
- Push/pull 60 lbs. for sliding door on vessel approximately 30x per day.

During the peak season the West Seattle run is performed 13x per day and the Vashon run is performed 6x per day. Therefore, the West Seattle run requires more dockings which includes the following physical activities:

- Pulls on lines (50lbs) when securing vessel to dock every run.
- 100lbs to raise/lower West Seattle passenger ramp.
- Rarely pushes/pulls wheelchairs on ramps up to 80' with 80lbs of force.
- Climbs 12 steps to the wheelhouse each run.
- Climbs 6 steps on/off vessel at West Seattle Dock.



King County Job Analysis Completed on: 4/3/13

Employee:

DOT #: 911.687-022

Job Title: Marine Deckhand

Claim # (if applicable):

Marine Deckhand-Spirit of Kingston Addendum

MEDICAL PROVIDER:

- ☐ I agree that the employee can perform the physical activities described in this job analysis and can return to work.

State date employee is released to return to work if different from today's date _____

- ☐ I agree the employee can perform the described job but only with modifications (describe in comments section). Modifications are needed on a permanent ☐ or temporary ☐ basis.

- ☐ The employee **temporarily** cannot perform this job based on the following physical limitations:

Anticipated release date: _____

Treatment plan: _____

- ☐ The employee is **permanently** restricted from performing the physical activities described in this job analysis based on the following physical limitations (state objective medical findings):

Comments:

Signature

Date

Print Name

- | | | |
|--|---|---|
| <input type="checkbox"/> Attending Physician | <input type="checkbox"/> Consulting Physician | <input type="checkbox"/> Pain Program Physician |
| <input type="checkbox"/> IME Physician | <input type="checkbox"/> PCE Therapist | <input type="checkbox"/> OT / PT Therapist |
| <input type="checkbox"/> PEP Physician | | |