Palos Verdes High School, PVIT, JSA, 2017

PVIT 2017 Job Safety Analysis (JSA)

HOUSEKEEPING

TASK	HAZARD	PROTOCOL
Machining	Contact with body	Follow safety checklist, use
	Dangerous debris	personal protection
		equipment(PPE)
Mission Runs	Leaking and breaching of	Perform pre-run checklist,
	electrical systems	
General Shop work	Stepping on sharp items	Putting all items back where
	and tools	they belong
		Wear close toed shoes
Electrical Power Tool	Unsafe contact with skin	Properly hold tools
(soldering iron)	or clothing flying debris	Keep all people not involved at
		a safe distance

PERSONAL PROTECTIVE EQUIPMENT

TASK	HAZARD	PROTOCOL
Power tools	Puncturing of skin	Eye protection, gloves, close
	Debris	toed shoes.
Metal Machining (Lathe)	Debris in eyes	Face protection, gloves, close
		toed shoes, goggles.
ROV operation	Injuring of body parts	Eye protection, close toed
		shoes.

HAND SAFETY

TASK	HAZARD	PROTOCOL
Laser Cutter	Contact with fingers	Keep lid closed, watch for
		sharp edges.
Drilling	Contact with fingers	Wear work gloves, Keep hand
		clear of drill bit.
Soldering	The use and contact of hot	Keep clear of hot surfaces,
	objects	notify others of hot surfaces,
		stow hot iron in designated
		areas.
Drill Press	Hitting fingers	Use designated clamps. Keep
		hands clear.

LIFTING & BACK SAFETY

TASK	HAZARD	PROTOCOL
Moving the ROV	Heavy lifting	Lift with the knees.
	Dropping heavy objects on self	
Launch/Recovery of ROV	Heavy lifting, awkward	Kneel on deck, use caution,
	position.	and don't fall in the water.
ROV supply boxes	Heavy lifting	Lift with the knees, use
	Crushing fingers	handholds, keep the load close
Moving Pelican Cases	Heavy lifting	Use wheels when possible,
		ONLY lift in pairs
Local transport of ROV	Heavy weight on body	Use rolling cart.

TOOL SAFETY

TASK	HAZARD	PROTOCOL
Drill Press	Damage to skin	Safety Glasses, Gloves, Close
	Crushing of fingers	Toed Shoes
Dremel	Breaking of skin	Safety Glasses, Gloves, Close
		Toed Shoes
Soldering Iron	Serious burning of skin	Safety Glasses, Close Toed
		Shoes, Hot tip holder/cleaner
PVC cutter	Cutting of fingers	Safety Glasses, Close Toed
		Shoes

ELECTRICAL SAFETY

TASK	HAZARD	PROTOCOL
ROV Operation	Electrical shock	Follow all checklists, keep
		extension cord dry.
Troubleshooting ROV	shock	Power Off.
Control System		
ROV Electrical Design &	Electrical systems failure	Use fuse, diodes, comply with
Fabrication		MATE regulations. No power
		supply in water.

Implementation & Enforcement: Employee Observation Program Utilize Safety Task Analysis Cards (STAC).