

Job Safety and Environment Analysis

Husky Explorer 2016



JSEA Employee Handbook

Table of Contents

Cover page.....	1
Table of Contents.....	2
Chapter 1. Housekeeping.....	3
Chapter 2. Hand safety.....	3
Chapter 3. lifting and back safety.....	3
Chapter 4. Personal Protective Equipment (PPE).....	4
Chapter 5. Tool safety.....	4
Chapter 6. Electrical Safety.....	4
Chapter 7. Employee Observation Program.....	5
Chapter 8. Job Safety and Environment Analysis (JSEA).....	5
Chapter 9. Working at Other Sites.....	5

1. Housekeeping

Keeping the workplace clean is one of the most important things our company Husky Explorer has done and continues to do during our building process. Keeping the workplace clean makes our team able to be safe and efficient when constructing our Remotely Operated Vehicle the TLB-1. Our company takes good care of the workplace keeping it clean and tidy. Keeping our workplace clean has made us efficient and helped us get the job done. Some of the things we did to keep our workplace clean are keeping the walkways clear, keeping long hoses or cords rolled up and put to the side when not in use to avoid tripping, picking up nuts or bolts that have fallen, and sweeping up all shavings or chippings that have fallen on the floor. Our company takes the cleanliness of our workplace very serious and makes sure that everyday we clean our workplace at the end of the day.

2. Hand safety

Safety to our company has the utmost importance. Trying to be safe in everything we do. Twenty percent of injuries that take place in a workplace are hand injuries, to prevent this our company has put in place rules that we must follow when working with our hands. Some of these rules are wearing gloves while working with sharp and hot materials, identifying potential hazards and eliminating these hazards by taking the proper safety protocol for the task, and making sure that any guards are in place while using a dangerous tool.

3. Lifting and back safety:

Back injuries are the most common injury that can happen in the workplace, there are many different things that you can do to prevent back injuries such as; lifting with your legs, never bend at the waist, and used two a person lift while lifting heavy items when need, never try to lift something that is heavy (40 LBS) by yourself. Our company has practised all of these so that none of our employees will get injured.

4. Personal Protective Equipment (PPE)

Personal Protective Equipment (PPE) is equipment that is used when people conduct certain tasks or work with certain materials to, in essence, protect their person. Husky Explorer used Personal Protective Equipment when it was needed to be used to keep our members safe. When constructing the ROV, tools like drills and hack saws were used, therefore our members used safety glasses to prevent materials getting lodged in their eyes. Our team did not use any hazardous materials in the making of the ROV but the Personal Protective Equipment like lab coats and fire retardant gloves were at our disposal just in case we needed them. Also when practicing at the pool all members on deck are made to wear life jackets just in case anyone were to fall in. Personal Protective Equipment is a big part of keeping our team members safe.

5. Tool Safety

Tool safety plays a big role when constructing an ROV, as people need to make sure the tool being used is in proper condition. Husky Explorer practiced tool safety by maintaining tools and making sure that the members using the tools are comfortable with the job. When assigning tasks, the members that were in charge of production and manufacturing were asked if they were comfortable with using tools such as saws, grinders, wrenches, and drills. This made sure that all members were confident when using the tools, thereby avoiding any mishaps. When using the tools, members made sure that all power equipment were operating properly and, if it was not operating properly the members would not use that tool and bring it up to their mentor to see if the problem could be fixed. The members made sure that they selected the proper tools to complete the job. Tool safety is important as power equipment and other tools can be dangerous when misused or when they are not operating properly.

6. Electrical Safety

Husky Explorer practiced electrical safety throughout the production of the ROV. When constructing the ROV the members working on the electrical system always made sure that the wires were not live and made sure that the tools they were using were insulated. On our electrical systems, we have a main shut off switch and a fuse, to protect us and the ROV while in operation. All the members that worked on the system had knowledge of wiring and electrical systems so they felt confident in the work they were completing. Also the members used soldering irons, and where they soldered wires together, all members made sure that the wires were not live and were prepared properly for soldering.

7. Employee Observation Program

As a company we are able to report and correct any unsafe behavior and environments. Also when we see a injury of a near miss or equipment injury we are able to deal with in a safe and timely manner. This program offers the ability to recognize the problem before it turns into a serious issue. Also this course allows us as a company to use safe practices and reduce the amount of injuries to none, which as a company is important to make sure no members are injured in the construction of the ROV. As a team we are all told that if we see these following unsafe environments or behavior we are able to tell the right person. They are first aid, unsafe condition recognition, unsafe behavior, near hit experiences, safety situations, and environmental situations. Not to mention all our members are informed of these important points.

8. Job Safety and Environment Analysis (JSEA)

JSEA is a checklist that our company members used in the construction of the ROV. This checklist shows the steps of a job and its hazards so we know how to deal with the problems properly. Each person has a responsibility which could be a manager or employee. Some steps are as follows; break the job in steps, identify possible hazards, control measure for hazard situations, assign control measures for hazards, then submit the JSEA. Our company has implemented this policy in our everyday work on the ROV.

9. Working at Other Sites

Our company is committed to working in a professional way. When we have to work at other job sites, we work as if we are in at our own job site. We make sure we put away any tools we have used and we also clean up after we are done. If we ever have to work at another job site we expect that our employees represent us well, respect the site and leave it the same way that they found it.