# Overview:

A **Job Safety Analysis** identifies hazards associated with each step of any job or task that has the potential to cause serious injury, determines how to control the hazards, produces a written tool that can be used to train other staff, and meets Cal/OSHA training requirements by developing procedures and work rules that are *specific for each job or task*. **For more information, see:** [**Job Safety Analysis Fact Sheet**](https://ehs.berkeley.edu/sites/default/files/job-safety-analysis-fact-sheet.pdf).

# Instructions:

Use the sample JSA to create a Job Safety Analysis. It is likely that each item written down will change in sequence or be re-defined during the process.

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| 1. **Assess work area** Is it clear of obstructions and slip/trip hazards? | * 1. **Falling** Slipping/Tripping | * + 1. **Maintain work area** Remove any obstructions or trip hazards. Maintain a dry floor. |
| 1. **Assess path to eye wash station** Is the path clear and free of obstructions? | * 1. **Increased chance of injury** Not immediately able to access emergency eyewash station if needed | * + 1. **Maintain work area** Remove any obstructions and maintain clear pathway |
| 1. **Select and don Personal Protective Equipment (PPE)** See [PPE for Labs](https://ehs.berkeley.edu/personal-protective-equipment-ppe-labs) for details on how to obtain Personal Protective Equipment (PPE) | * 1. **Increased chance of injury** Exposure of corrosive solution to eyes or skin | * + 1. **Mandatory PPE** See *Required Personal Protective Equipment (PPE)* at the bottom of this document for a list of all PPE that must be worn |
| 1. **Select items** Parts needing dissolve support removed and placed in appropriate soak basket | * 1. **Loss of parts within solution tank** Parts not placed in a soak basket are at risk of being lost in the solution tank | * + 1. **Use appropriate soak basket** |
| 1. **Drain tank lid** Slowly raise lid of solution tank and allow condensate to drain back into the solution tank | * 1. **Spill** Possible corrosive solution spilled outside of solution tank | * + 1. **Secondary containment** Place lid in secondary containment container |
| 1. **Place basket** Slowly lower soak basket into solution tank making sure not to splash solution | * 1. **Increased chance of injury** Exposure of corrosive solution to eyes or skin | * + 1. **Be mindful** Work in a slow and deliberate manner |
| 1. **Check basket** Make sure basket is submerged and sitting level on the bottom of tank | * 1. **Increased chance of injury** Possible corrosive solution being splashed on operator | * + 1. **Be mindful** Work in a slow and deliberate manner |
| 1. **Replace solution tank lid** | * 1. **Contamination** Possible accidental exposure of corrosive solution | * + 1. **Do not operate without lid in place** |
| 1. **Set timer** on solution tank control | * 1. **Solution tank not dissolving support material properly** | * + 1. **Verify timer is set and operating** |
| 1. **Area Control** Do not allow observers within splash area during time while parts are put into or being removed from dissolve tank | * 1. **Increased chance of injury** Exposure of corrosive solution to eyes or skin | * + 1. **Distancing** Maintain a three foot perimeter anytime the tank lid is removed |
| 1. **Tank maintenance** Maintain tank water levels within the manufacturers specifications | * 1. **Increased chance of injury** Exposure of corrosive solution to eyes or skin | * + 1. **Don PPE**     2. **Remove solution tank lid** See task 5     3. **Replace/remove water as necessary** |
| 1. **Tank Draining** Draining solution from tanks as necessary | * 1. **Increased chance of injury** Exposure of corrosive solution to eyes or skin | * + 1. **Don PPE** |
|  | * 1. **Spill** Possible corrosive solution spilled outside of solution tank | * + 1. **Drain Tank** Remove drain plug from tank, attach hose to drain, and drain liquid into designated 5 gallon containers.     2. **Constantly monitor disposal container** DO NOT overfill (more than 4 gallons) |
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| 1. **Tank Filling** Mixing and adding new solution to tanks | * 1. **Increased chance of injury** Exposure of corrosive solution to eyes or skin | * + 1. **Don PPE**     2. **SPECIAL NOTE: ALWAYS!** ADD concentrate (P400-SC) to water NEVER add water to concentrate! |
|  | * 1. **Spill** Possible corrosive solution spilled outside of solution tank | * + 1. **SPECIAL NOTE: ALWAYS!** ADD concentrate (P400-SC) to water NEVER add water to concentrate! |
| **Required Training:**  (1) Read and understand SDS on Stratasys P400SC Sodium Hydroxide, (2) Read and understand how to operate the Fendall Porta Stream II Emergency Eyewash Station, (3) Read and understand operation manual for proper and safe use of dissolve tank.  **Required Personal Protective Equipment (PPE):**  Heavy Duty Neoprene Gloves (gauntlet style), Safety Glasses, Full Face Splash Shield, Liquid resistant lab coat  **Additional Guidance:** n/a | | |