

# Job Safety Analysis (JSA) Or Job Hazard Analysis (JHA) Or Job Hazard Breakdown

## Definition:

- ❖ A job safety analysis (JSA) is a process by which we can integrate [safety](#) and health procedures and implement the same into a task or a job.
- ❖ It is a systematic method of Hazard recognition and it`s mitigation.
- ❖ In a JSA, Identification of potential hazards in each steps to be carried out and to recommend/Implement the safest way to complete the job.
- ❖ It is also known as “job hazard analysis (JHA)” and “Job hazard breakdown”.

# Four Basic Steps Of JSA

## Four Basic Steps of Job Safety Analysis (JSA) OR Job Hazard Analysis (JHA)

1 Selection of the job to be analysed.



2 Break down job into a sequence of steps.



3 Identification of potential hazards.



4 Determining preventive/Control measures to overcome identified hazards.

# How we can identify potential hazards?

**For example, Ask questions like below to get list of potential hazards,**

- ❖ Chances of falling objects?
- ❖ Slip, Trip, Fall Hazard?
- ❖ Lighting issues?
- ❖ Ventilation issues?
- ❖ Unfavourable weather conditions?
- ❖ Radiation hazard?
- ❖ Mechanical hazards?
- ❖ Electrical Hazards?
- ❖ Hot environment?
- ❖ Chemical Hazards?
- ❖ Ergonomic hazards such as strain from lifting, pulling etc.?
- ❖ Extreme heat or extreme cold hazard?
- ❖ Environmental hazards such as dust, fumes, mist, vapors, aerosols, etc.?

# Advantages or Benefits of Doing a Job Safety Analysis:

- ❖ Job Safety Analysis don't rely on individual, it is team effort and team output.
- ❖ It gives clear picture of Hazard/Risk/Danger of the workplace in advance.
- ❖ Detection of hazard at early stages of Job/Task through JSA procedure.
- ❖ Awareness on health and safety increase as communication between different levels of the team during performing JSA.
- ❖ Safe work procedure acceptance promoted as it is integrated in JSA.
- ❖ It also helpful in incident investigation procedures.
- ❖ JSA helps in fulfilling legal compliances and meet safety standards.
- ❖ It helps to prevent accidents in work place, thus minimize loss.
- ❖ JSA saves time required for new comers training and helps quick on boarding.
- ❖ It Minimizes risk by making workmen aware about hazard and/or danger.
- ❖ JSA helps in standardisation of work procedures, work method statements,etc.
- ❖ It is helpful in ensuring safe work environment.
- ❖ Helps to improve work quality with safety.
- ❖ Documentation fulfils various audit and other legal requirements.
- ❖ It helps to identify hidden hazards.
- ❖ It aids training in form of job briefing with hazards and risk associated with job/tasks.
- ❖ JSA makes [Hazard identification and risk assessment](#) process stronger in terms of communication and implementation at ground level.

# Which job requires job safety analysis?

- ❖ Ideally, all job should gone through JSA.
- ❖ Tasks/Jobs which has high incident rate in past.
- ❖ A job which has high potential to cause harm/fatality.
- ❖ Tasks/Jobs where human error may have chance to lead incidents, fire and /or explosion.
- ❖ Job where there is no prior expertise available.
- ❖ Job Complexity.
- ❖ Shut down or restart of plant/Machinery/projects.
- ❖ Job which has serious impact on health and safety.

# Who are the members of “Job Safety Analysis Team”?

- ❖ Individual/Team of individuals who are performing task.
- ❖ Supervisor.
- ❖ Person from Safety Department.
- ❖ Technical experts.
- ❖ In-Charge of area.
- ❖ Person from engineering and maintenance department.
- ❖ It is depends on complexity of job, number of team members varies.

# Assessment of Hazards for Job Safety Analysis:

- Do past assessment on the basis of
- Workmen remarks, suggestions and complaints.
- Past accidents including [near misses](#).
- Audit recommendations.
- Walk through survey/safety inspection remarks.
- Past Non-compliances if any.
- Ask questions for brain storming;
- What can go wrong?
- What are the possible consequences?
- How it may happen?
- What are the contribution factors?
- What is the probability of hazards and risks to occur?
- What are the control measures in place?
- What are the preventive measures in place?

# What we can do for hazard elimination by means of JSA?

- Elimination.
- Substitution.
- Isolation.
- Engineering control to prevent hazards.
- Administrative controls.
- PPE procurement and assurance of its usage.
- Safe operating procedures or standard work method statement in place with proper supervision.



# Thank you for reading!!!

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