



Institute for *Plasma Research*  
*Welcomes you all*

# *SAFETY INDUCTION TRAINING PROGRAM*



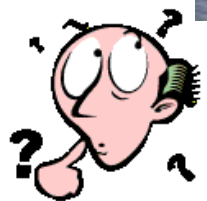
*D.V.Modi, SAFETY OFFICER, IPR*

COMPILED BY: *SAFETY COMMITTEE, IPR*

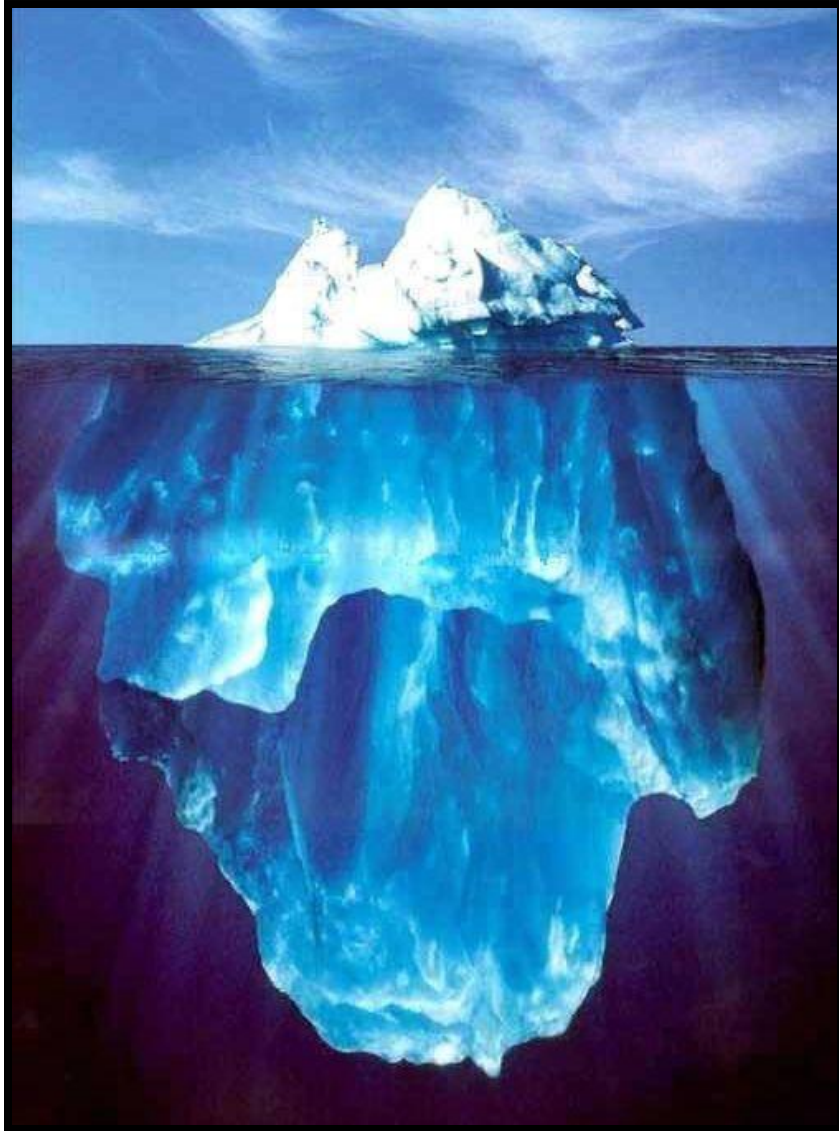
# THE ICEBERG



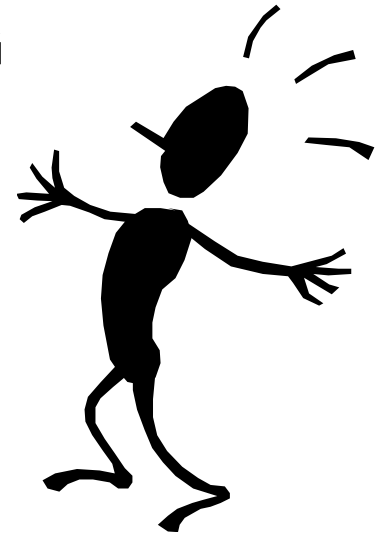
**HOW MUCH DO YOU SEE OF AN ICEBERG?**



# THE ICEBERG



**ONLY 10% OF  
THE ICEBERG  
IS VISIBLE.**



**This phenomena is  
applicable to human  
beings also ...**

# THE ICEBERG



**KNOWN  
TO OTHERS**

**KNOWLEDGE  
&  
SKILLS**

**SEA LEVEL**

**UNKNOWN  
TO OTHERS**

**ATTITUDE**



# THE ICEBERG

- **In other words,**

# THE ICEBERG



**KNOWN  
TO OTHERS**

**BEHAVIOR**

SEA LEVEL

**UNKNOWN  
TO OTHERS**

**IMPACT**

**VALUES – STANDARDS – JUDGMENTS**

**ATTITUDE**

**MOTIVES – ETHICS - BELIEFS**



# WHAT MAKES YOUR LIFE 100% ?

Let each alphabet has a value equals to its sequence of the alphabetical order.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

S	K	I	L	L	S
19	11	9	12	12	19

=

82

K	N	O	W	L	E	D	G	E
11	14	15	23	12	5	4	7	5

=

96

H	A	R	D		W	O	R	K
8	1	18	4		23	15	18	11

=

98

A	T	T	I	T	U	D	E
1	20	20	9	20	21	4	5

=

100

# BEST QUOTES ON POSITIVE ATTITUDE

- **Right attitude produces right action.**
- **The most significant is the change towards better attitude.**
- **A positive attitude is not a destination but a way of life.**
- **Positive attitude is like a magnet for success.**

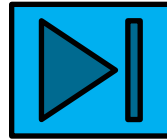


# INTRODUCTION

- **Safety, in general, means freedom from danger, harm, risk, accident, injury or damage.**
- **Safety is the control of unplanned events.**
- **Safety is a situation with acceptable risks.**
- **Safety is to bring or keep the hazard level below permissible level.**

# INTRODUCTION

*Clip on “Safe Start”*



*Clip on “Attention during training”*



# INTRODUCTION

**S – Science of Safety for Self & Society,**  
**A – Art & Action for Accident Avoidance,**  
**F – Full proof safety includes system safety,**  
**E – Engineering Controls,**  
**T – Teaching & Training for safety to all,**  
**Y – Young Person & Young Mind to work for**  
**safety. Yawl to save the humanity.**

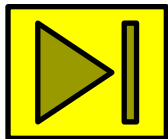
# SAFETY IS TO

- **Increase the productivity.**
- **Reduce the loss to nation.**
- **Reduce workplace incidents, health hazards and adverse effects on environment.**
- **Reduce risk level at an acceptable level.**
- **Enhance reputation.**

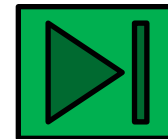
# SHE POLICY

- **SHE (Safety, Health & Environment) Policy is the first & foremost requirement for any organisation to develop and approved by top authority and take appropriate actions for its implementation.**
- **SHE Policy of IPR,**

**In Hindi**



**In English**



# PPE

- **Personal Protective Equipment** i.e. PPE is provided to use while working as a last resort, in case hazards cannot be controlled by any other means.

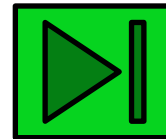


- **PPE Examples: Safety Helmet, Safety Shoes, Safety Glasses, Safety Goggles, Face shield, Hand Gloves, Masks for respiratory protection, Full Body Safety Harness for fall protection, Ear plug/Ear muff etc.**

# PPE

- PPE is effective in protecting the user, only if
  - a. PPE is used in accordance with employers and manufacturer instructions.
  - b. PPE is cleaned, stored, repaired and maintained correctly.

*Clip on “Right PPE”*



*Clip on “PPE Use”*



# PPE

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"I don't need a hard hat.  
I won't be staying long."



# PPE

## WELDING/CUTTING SAFETY



★ WEAR PROPER  
EYE/FACE PROTECTION.

★ WEAR FIRE RESISTANT GLOVES  
AND CLOTHING FREE OF OIL  
AND GREASE.

### PERSONNEL PROTECTION

USE FALL PROTECTION.

PLACE EQUIPMENT AS TO  
PREVENT TRIPPING.

USE PROPER EYE AND  
FACE PROTECTORS.

USE FIRE RESISTANT  
GLOVES AND CLOTHING.

PROTECT ADJACENT  
WORKERS WITH NON-  
COMBUSTIBLE BOOTHS  
AND SCREENS.

★  
PROTECT COMBUSTIBLES  
WITHIN 35 FEET OF WORK AREA,  
AND HAVE FIRE EXTINGUISHERS AVAILABLE!



ORDER  
#GG120

# SAMPLE

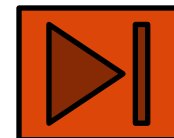
# GENERIC ROLES OF INDIVIDUAL

- **Implement the SHE Policy,**
- **Shall not willfully interfere with or misuse any appliance or any thing that is provided for the purposes of securing health, safety and welfare of workers therein,**
- **Shall not willfully and without reasonable cause do anything likely to endanger himself or others,**
- **Responsible for Conservation of energy, oil, water, paper, natural resources etc.**


# GENERIC ROLES OF INDIVIDUAL

- Responsible for reduction in waste,
- Maintain Good Housekeeping practice,
- Accountable and responsible for proper usage of PPEs,
- Accountable for immediate reporting of incidents,
- Participation in incident investigation when required,

*Clip on “Good Housekeeping”*



# IPR's SAFETY PROTOCOL

- Each employee while working shall wear safety shoes and safety helmet. Other PPEs shall be appropriately used. 
- Visitors should be escorted by IPR Employee inside the work area.
- People with pacemakers or other medical implants must stay out from Radio & Microwaves Frequencies and high magnetic field.
- Ensure that electrical work is carried out by qualified personnel or contractor having certificate from competent authority.

# IPR's SAFETY PROTOCOL

- While procuring any hazardous material, Material Safety Data Sheet is essential.
- New system must be designed with safety interlocks and other inbuilt safety measures.
- All the exits must be kept free of obstructions to facilitate quick escape in an emergency.
- Good housekeeping is considered as the backbone of safety. Keep all the materials at its assigned place.
- Lift should not be used in case of fire. Use staircases only.

# IPR's SAFETY PROTOCOL

- **Clearance must be obtained from Safety Committee before carrying out any expansion, modification or changes in the existing system.**
- **While working in the labs where liquid nitrogen or helium is used, if oxygen deficiency alarm blows or in case of liquid nitrogen or helium leakage, leave the area safely and go in open space.**
- **Electrically insulated tools and appropriate protective appliances must be used while working with possible electric and related hazards.**

# IPR's SAFETY PROTOCOL

- **Electric Isolation Procedure must be followed while working on electrical equipments.**
- **Do not keep any flammable materials in the vicinity of any hot job i.e. welding, gas cutting, brazing, grinding activities etc.**
- **If any incident occurs in the work premises, report it to Chairman-Safety Committee, Safety Officer and/or Administrative Officer immediately. Fill the Initial Incident Report i.e. IIR form and submit it to Safety Committee.**

**WORK TOGETHER**



**WIN TOGETHER!**





**You get the level of safety  
that  
you demonstrate  
you want.**

# SAFETY & HEALTH PLEDGE

**“On this Day, I solemnly affirm that I will rededicate myself to the cause of Safety, Health and protection of Environment and will do my best to observe rules, regulations and procedures and develop attitudes and habits conducive for achieving these objectives.**

**I fully realize that accidents and diseases are a drain on the national economy and may lead to disablements, deaths, harm to health and damage to property, social suffering and general degradation of environment.**

**I will do everything possible for the prevention of accidents and occupational diseases and protection of the environment in the interest of self, family, community and the nation at large.”**

**- An employee of IPR**

**Let's make IPR**



**A Safe Research Institute**

*THANK YOU*

