

Time	Lesson Plan	Trg Aid															
	<p align="center"><u>OHSE – HAZARD IDENTIFICATION AND RISK ASSESSMENT</u></p> <p>1. <u>Principle.</u> Fol are the principles of hazard identification and risk assessment: -</p> <ol style="list-style-type: none"> a. Identification of Hazards b. Deciding Who Might Be Harmed and How c. Evaluation of Risk d. Record the Findings e. Review the Risk Assessment <p>2. <u>Consequence and Severity of Hazard.</u> Once all hazards are identified, the consequences/ severity (i.e. harm which could possibly occur in term of personal injury or ill-health or material losses) shall be identified and recorded in Hazard Identification and Risk Assessment Form</p>																
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	<p>4. Risk Rating. The risk created by each hazard should be evaluated according to the consequences/ severity of the hazard's effects & likelihood/ probability of the hazard. The consequences and likelihood are assessed keeping in view the criteria mentioned before.</p> <p style="text-align: center;">Risk = Probability/ Likelihood x Severity / Consequence</p> <div style="text-align: center;"> <table border="1" style="margin: auto;"> <thead> <tr> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">Probability</th> <th colspan="5">Severity</th> </tr> <tr> <th>Insignificant</th> <th>Minor</th> <th>Moderate</th> <th>Serious</th> <th>Catastrophic</th> </tr> </thead> <tbody> <tr> <td></td> <td>Near Miss, First aid only where no medical attention is required (Eye wash, abrasion or slight burn to palm or upper skin)</td> <td>Medical care given in any hospital outdoor (Dermatitis, Allergic asthma, minor injuries, eyes redness, etc.)</td> <td>Hospitalization or sick leave over three days (certain fevers, MSD, certain injuries)</td> <td>Hospitalization and medical treatment for longer period of time (Fractures, burns, mental ill-health)</td> <td>Permanent disability, Death, loss of more people & materials (amputation, blindness, lung cancer)</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> </tr> </tbody> </table> </div> <p>↓</p> <table border="1" style="margin: auto;"> <tbody> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Almost certain (certain in most of the cases, Equipment aging, presence of any hazardous material which has greater chance to get out of control e.g. toxic or flammable gases/ liquid, vibrations.)</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> <td style="background-color: #cccccc;"></td> <td style="background-color: #cccccc;"></td> <td style="background-color: #cccccc;"></td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Likely (certain unsafe conditions and acts poor control or commitment which can result in any unwanted event, e.g. slippery surface or working without PPE.)</td> <td style="text-align: center;">4</td> <td style="background-color: #cccccc;"></td> <td style="text-align: center;">8</td> <td style="background-color: #cccccc;"></td> <td style="background-color: #cccccc;"></td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Possible (can occur under some situations, it has occurred in this workshop before once in every 5 years.)</td> <td style="text-align: center;">3</td> <td style="background-color: #cccccc;"></td> <td style="text-align: center;">6</td> <td style="text-align: center;">9</td> <td style="background-color: #cccccc;"></td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Un Likely (Not expected to occur, rarely occur, once in 5 to 10 years, good controls are in place)</td> <td style="text-align: center;">2</td> <td style="background-color: #cccccc;"></td> <td style="background-color: #cccccc;"></td> <td style="text-align: center;">6</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Rare (likely to occur with less frequency than once every 10 years. 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	<p>5. Risk Evaluation. Risk evaluation of any hazard which is identified can be carried out by taking few actions. Those actions along with the severity of hazard is as fol :-</p> <ol style="list-style-type: none"> a. Extreme risk is highly unacceptable, stop work, immediate action required to mitigate the risk. (elimination, substitution, engineering control measures, close supervision is required). b. In high risk improvement is required in specified time (intervention either through elimination, engineering or management action). c. Medium risk is to look for further improvement to prevent even minor risk. d. Acceptable risk level, regular review is required <p>6. Risk Control. Measures for the management of risk should reflect the principle of eliminating hazards where practicable, followed in turn by risk reduction with the adoption of personnel protective equipment as a last resort. This shall be applicable to all existing and further control measures required to minimize the risk level.</p>																																																						

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	<p>7. <u>Hierarchy of Control.</u> Control can be done as:-</p> <ul style="list-style-type: none"> a. Elimination b. Substitution c. Engineering controls d. Administrative controls e. Personal protective equipment f. Management action for risk control g. Action plan for recommended control measures 	