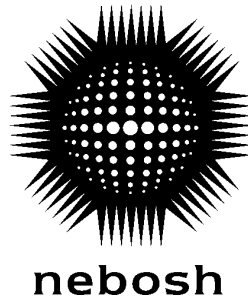


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**Candidate's observation  
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**IGC3 – THE HEALTH AND  
SAFETY PRACTICAL APPLICATION**

Sheet number \_\_\_\_\_ of \_\_\_\_\_

Student name \_\_\_\_\_

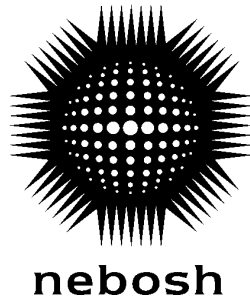
Student number \_\_\_\_\_

Place inspected \_\_\_\_\_

Date of inspection \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Observations	Control measures	Timescale
Hazards and Consequences	Immediate and Longer-term actions	
<p>1. Earth moving equipment JCB with plate no <b>B25102</b> was working near culvert area without reverses alarm, could easily result in accidents.</p> <p>(AD EHSMS- CoP 36.0 Plants and Equipments).</p>	<ul style="list-style-type: none"> <li>• Assign trained banks man to control the movement mean while alarm is fixed.</li> <li>• Inform plant department to fix reverse alarm.</li> <li>• Develop procedure for inspection and maintenance for plant and equipment.</li> <li>• Perform regular inspection and maintenance of all plants and equipment</li> </ul>	<p>Immediate</p> <p>2 days</p> <p>1 month</p> <p>On-going</p>
<p>2. Dewatering pump's fan guard and fly wheel guard broken near manhole NO .82. Hazard of trapping and fly objects</p> <p>(AD-EHSMS CoP 47.0 Machine Guarding)</p>	<ul style="list-style-type: none"> <li>• Shutdown the operations and cordon off the dewatering pump.</li> <li>• Provision of suitable stable and sufficient guards.</li> <li>• Develop procedure for regular inspection and maintenance for plants</li> </ul>	<p>Immediate</p> <p>2 days</p> <p>On going</p>
<p>3. Circular saw machine being operated without guard. Hazard of cut, abrasions.</p> <p>(AD-EHSMS CoP 47.0 Machine Guarding)</p>	<ul style="list-style-type: none"> <li>• Stoppage of circular saw machine</li> <li>• Install guard for the circular saw.</li> <li>• Install warning signs, safety measures and hazards associated near the circular saw machine</li> <li>• Arrange training session for all operator of circular saw.</li> </ul>	<p>Immediate</p> <p>1 day</p> <p>1 week</p> <p>2 weeks.</p>

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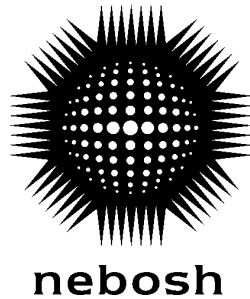
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Place inspected \_\_\_\_\_

Date of inspection \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Observations	Control measures	Timescale
Hazards and Consequences	Immediate and Longer-term actions	
4. White spirit flammable paint tin adjacent to circular saw machine.  (AD EHSMS CoP 1.0 Hazardous Materials)	<ul style="list-style-type: none"> <li>Remove from hazardous area.</li> <li>Storage in flammable store.</li> <li>Information, instruction, training and supervision on use of chemicals to all operators.</li> </ul>	Immediate  2 days  On going
5. Power drill cable damaged and covered with insulation tape. No PAT done for the power drill. Hazard of electric shock.  (AD EHSMS CoP 35.0 Portable Power Tools)	<ul style="list-style-type: none"> <li>Remove from work place.</li> <li>Fix the cable and PAT inspection certificate.</li> <li>Arrange training session for all employees involved for operations of portable power tools.</li> <li>Develop procedure for inspection and maintenance of portable power tools.</li> </ul>	Immediate  1 week  2 weeks  On-going
6. Portable electrical generator bell drive exposed guard removed. Hazard of trap and flying objects.  (AD EHSMS CoP 47.0 Machine Guarding)	<ul style="list-style-type: none"> <li>Remove from workplace.</li> <li>Fix the guards and inform workers to not remove guards for any purpose.</li> <li>Develop and implement procedure for maintenance and inspection of plants.</li> <li>Introduce color coding system for tools and equipment's.</li> </ul>	immediately  2 days  1 month  On-going
7. Reverse parking signage posted on all parking space allocated at site office (good	<ul style="list-style-type: none"> <li>Maintain the signage and monitor the same.</li> </ul>	

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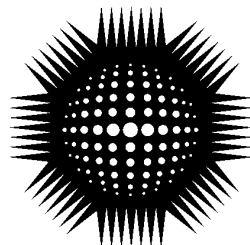
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Date of inspection \_\_\_\_ / \_\_\_\_ / \_\_\_\_

<b>Observations</b>	<b>Control measures</b>	<b>Timescale</b>
Hazards and Consequences practice)	Immediate and Longer-term actions	
8. DCP fire extinguisher installed near the smoking area was expired.  (AD EHSMS CoP. 7.0 Fire Prevention, Planning and Control)	<ul style="list-style-type: none"> <li>Remove the fire extinguisher and fix new one with valid inspection date.</li> <li>Develop procedure for monthly inspection and maintenance of fire fighting equipment's.</li> <li>Arrange in house training for office boys and security how to use fire fighting equipment.</li> </ul>	Immediate  On going  1 Month
9. No emergency lighting fixed over fire exit in middle of office corridor wall. Hazards of injuries to office employees during emergencies situations).  (AD EHSMS CoP 6.0 Emergency Management Requirements)	<ul style="list-style-type: none"> <li>Provision of emergency lighting.</li> <li>Program for inspection and maintenance for emergency arrangements.</li> <li>Develop a checklist for weekly inspection of all emergency equipment installed at the workplace and office.</li> </ul>	1 week  Monthly  Weekly
10. Smoking cigarettes buds were found near electrical generator. Hazard of fire explosion.  (AD EHSMS CoP. 7.0 Fire Prevention, Planning and Control)	<ul style="list-style-type: none"> <li>Provision of no smoking sign boards.</li> <li>Communication and implementation of no smoking policy.</li> <li>Strict disiplinary action against violators.</li> </ul>	Immediate  1 week  On going

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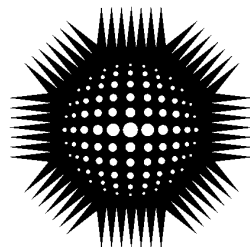
Student number \_\_\_\_\_

Place inspected \_\_\_\_\_

Date of inspection \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Observations	Control measures	Timescale
Hazards and Consequences	Immediate and Longer-term actions	
<p>11. Risk of fire and explosion due to storage of acetylene cylinders near electrical generator.</p> <p>(AD EHSMS CoP. 7.0 Fire Prevention, Planning and Control)</p>	<ul style="list-style-type: none"> <li>Remove the cylinder and store at designated area.</li> <li>Provide designated place of cylinder storage.</li> <li>Develop procedure for storage of hazardous material at specific areas.</li> <li>Arrange in-house training session for all employees expressing the hazards of such material.</li> </ul>	<p>Immediate</p> <p>1 week</p> <p>On going</p> <p>1 month</p>
<p>12. Hydraulic oil builds upon trays /installed for the generator. Possibility of fire and contamination of the surrounding soil.</p>	<ul style="list-style-type: none"> <li>Clean out the tray</li> <li>Develop and implement procedure for regular maintenance and inspection of equipment and plants.</li> </ul>	<p>Immediate</p> <p>On going</p>
<p>13. Risk of damage to environment due to Oil and grease spills around plant maintenance area.</p>	<ul style="list-style-type: none"> <li>Clean the area.</li> <li>Use spills tray.</li> <li>Regular inspection and maintenance.</li> </ul>	<p>Immediate</p> <p>2 days</p> <p>monthly</p>
<p>14. Risk of suffocation whilst two painters were painting manhole not wearing respiratory mask.</p> <p>(AD EHSMS CoP 2.0 Personnel Protective Equipment).</p>	<ul style="list-style-type: none"> <li>Provide respiratory mask.</li> <li>Information, training and supervision on use of chemicals and appropriate PPE's.</li> <li>In house training session expressing the hazards associated with chemicals.</li> </ul>	<p>Immediate</p> <p>On going</p> <p>2 weeks</p>

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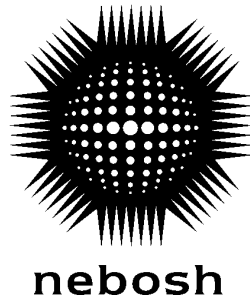
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Place inspected \_\_\_\_\_

Date of inspection \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Observations	Control measures	Timescale
Hazards and Consequences	Immediate and Longer-term actions	
15. Risk of radiation exposure due to ongoing compaction test using <b>unclear</b> compaction testing machine without signage and watchman at 1000 area.	<ul style="list-style-type: none"> <li>Provision of warning barriers with signage.</li> <li>Training for workers and personnel directly involve of the nuclear test activity.</li> <li>Refresher training for personnel who doing compaction test and health surveillance tests for the personnel.</li> </ul>	<p>Immediate</p> <p>1 week</p> <p>3 months</p>
16. All fire extinguishers are regularly serviced in substation building.	<ul style="list-style-type: none"> <li>Commendable</li> </ul>	
17. <b>Risk of personnel falling due collapsing of scaffolding with insufficient support and bracings used by workers doing painting jobs at SS-1124.</b>  (AD EHSMS CoP 26.0 Scaffolding)	<ul style="list-style-type: none"> <li>Rectify the scaffolding by a competent scaffolder.</li> <li>Regular inspection by a competent inspector before use.</li> <li>Conducted work at height safety training for workers and refresher training for scaffolder's.</li> </ul>	<p>Immediate</p> <p>Daily</p> <p>6 months</p>
18. Electrical grinder was being used near manhole # Z2/26 with naked wire directly plugged into the generator electrical panel. Hazard of electric shock and fire.  (AD EHSMS CoP 15.0)	<ul style="list-style-type: none"> <li>Remove from work place.</li> <li>Fix three pin industrial plug.</li> <li>Develop program for regular inspection and maintenance for all portable power tools.</li> </ul>	<p>Immediate</p> <p>Immediate</p> <p>1 month</p>

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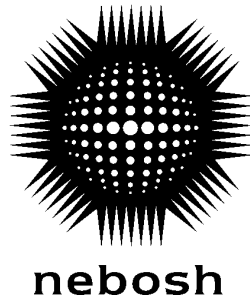
Student number \_\_\_\_\_

Place inspected \_\_\_\_\_

Date of inspection \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Observations	Control measures	Timescale
Hazards and Consequences Electrical <u>Safety</u> ).	Immediate and Longer-term actions	
19. Portable drill out of test date.  (AD EHSMS CoP. Portable Power Tools)	<ul style="list-style-type: none"> <li>Remove until tested.</li> <li>Develop programme for portable appliance testing on regular basis.</li> </ul>	Immediate  3 months
20. 220 voltage generator used to supply electricity to 110 voltage hand wood cutting machine. Hazard of fire explosion and electric shock. (AD EHSMS CoP 15.0 Electrical <u>Safety</u> ).	<ul style="list-style-type: none"> <li>Provide distribution board.</li> <li>Training and supervision on use of electrical tools.</li> <li>Implement color coding system to identify right voltage systems and tools.</li> </ul>	Immediate  On going  On going
21. Risk of eye strain and trips controlled by good lighting in main hall of substation building.	<ul style="list-style-type: none"> <li>Commendable</li> </ul>	
22. Plastic bags, damaged sheet were littering around the yard area.	<ul style="list-style-type: none"> <li>Store in waste container.</li> <li>Information, instruction and supervision for housekeeping.</li> <li>Arrange programme for regular collection and disposal of waste.</li> </ul>	Immediate  1 week  1 month

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Student number \_\_\_\_\_

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Date of inspection \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Observations	Control measures	Timescale
Hazards and Consequences	Immediate and Longer-term actions	
23. Concrete mixer cleaned in the yard area resulting in contamination of ground soil and underground water.	<ul style="list-style-type: none"> <li>• Clean the area.</li> <li>• Provision of concrete cleaning pit.</li> <li>• Develop programme for waste management and environmental protection.</li> </ul>	Immediate  1 week  On going
24. Flat bars protruding into walkway from under workbench. Hazard of hit by, slips and fall.	<ul style="list-style-type: none"> <li>• Move completely underneath the bench.</li> <li>• Instruction and supervision on regular basis to all workers explain the hazards with temporary site facilities.</li> </ul>	Immediate  2 weeks
25. Risk of injury due poor handling of gas cylinder at site. LPG gas cylinders were kept without trolley.  (AD EHSMS CoP 49.0 Compressed Gases and Air)	<ul style="list-style-type: none"> <li>• Provide suitable trolley for cylinder handling at work area.</li> <li>• Give awareness about poor handling of gas cylinder hazards. Monitor to using of cylinder handling trolley at site properly.</li> </ul>	Immediate.  2 weeks