



## Subject Description Form

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|---|---|
| <b>Subject Code</b>                                   | LSGI2000/IC251  |
| <b>Subject Title</b>                                  | Industrial Safety for Surveying and Geo-Informatics   |
| <b>Credit Value</b>                                   | 1 Training Credit   |
| <b>Level</b>  | 2   |
| <b>Pre-requisite/<br/>Co-requisite/<br/>Exclusion</b> | Nil   |
| <b>Objectives</b>                                     | This subject aims to provide basic knowledge of industrial safety at work commensurate with that required for Mandatory Basic Safety Training for construction industry.  |
| <b>Intended Learning Outcomes</b>                     | Upon completion of this subject, students will be able to:<br><br>a) describe the legal requirements/codes of practice relating to construction safety;<br><br>b) describe the common types of work-related accidents and identify potential Occupational Safety and Health hazards at construction sites, and recommend associated preventive measures including the use of personal protective equipment;<br><br>c) identify potential work-related hazards and recommend associated preventive measures on field work.   |
| <b>Subject Synopsis/<br/>Indicative Syllabus</b>      | <ol style="list-style-type: none"><li>1) <b>Safety Law:</b> Factories and Industrial Undertakings Ordinance and its subsidiary regulations; Occupational Safety and Health Ordinance and its subsidiary regulations; Construction Sites (Safety) Regulations, covering associated hazards and risks including vehicle safety, insect bites, heat stress and foul weather precautions; Overview of Codes of Practices.</li><li>2) <b>Occupational Health:</b> Dangerous Substances and Chemical Safety; Display Screen Equipment; Dust Hazards and Control; Manual Handling (including hands-on session on correct posture); Noise Hazards and Control.</li><li>3) <b>Safety Technology:</b> Electrical safety; Fire Safety including hill fire; Machinery Hazards and Principles of Guarding; Personal Protective Equipment including hands-on sessions covering safety harness and helmet); Emergency Preparedness and Handling, covering Emergency Handling Techniques and First Aid.</li></ol> |



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| <b>Learning Methodology</b>  | <p>The learning begins general study of the local legal requirements, safety concepts and accident phenomenon, followed by a study of hazard identification, risk assessment and control measures. The learning will be supported by video illustrations, case studies and group discussions.</p>  |                                     |   |                |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
|--|--|-------------------------------------|---|----------------|--|--------------------|---------------|-------------------------------------|--|--|-----------|---|---|---------------|---------|------------|---|---|---------|--------|--------------------|---|---|-------|-----|--------------|--|--|--|---------|--------------------|--|--|--|----------------|
| <b>Assessment Methods in Alignment with Intended Learning Outcomes</b> | <table border="1" data-bbox="480 562 1331 947"> <thead> <tr> <th rowspan="2">Assessment Methods</th> <th rowspan="2">Weighting (%)</th> <th colspan="3">Intended Learning Outcomes Assessed</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>1. Coursework</td> <td>50</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2. Test</td> <td>50</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Total</td> <td>100</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>   |                                     |   |                |  | Assessment Methods | Weighting (%) | Intended Learning Outcomes Assessed |  |  | a         | b | c | 1. Coursework | 50      | ✓          | ✓ | ✓ | 2. Test | 50     | ✓                  | ✓ | ✓ | Total | 100 |              |  |  |  |         |                    |  |  |  |                |
| Assessment Methods   | Weighting (%)  | Intended Learning Outcomes Assessed |   |                |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
|  |  | a                                   | b | c              |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| 1. Coursework  | 50   | ✓                                   | ✓ | ✓              |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| 2. Test  | 50   | ✓                                   | ✓ | ✓              |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| Total  | 100  |                                     |   |                |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| <b>Student Study Effort Expected</b>                                   | <table border="1" data-bbox="464 974 1359 1395"> <thead> <tr> <th colspan="5">Class Contact</th> </tr> </thead> <tbody> <tr> <td colspan="4">▪ Lecture</td> <td>14 Hrs.</td> </tr> <tr> <td colspan="4">▪ Tutorial</td> <td>1 Hrs.</td> </tr> <tr> <th colspan="5">Other Study Effort</th> </tr> <tr> <td colspan="4">▪ Coursework</td> <td>20 Hrs.</td> </tr> <tr> <th colspan="4">Total Study Effort</th> <td><b>35 Hrs.</b></td> </tr> </tbody> </table>  |                                     |   |                |  | Class Contact      |               |                                     |  |  | ▪ Lecture |   |   |               | 14 Hrs. | ▪ Tutorial |   |   |         | 1 Hrs. | Other Study Effort |   |   |       |     | ▪ Coursework |  |  |  | 20 Hrs. | Total Study Effort |  |  |  | <b>35 Hrs.</b> |
| Class Contact  |  |                                     |   |                |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| ▪ Lecture  |  |                                     |   | 14 Hrs.        |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| ▪ Tutorial   |  |                                     |   | 1 Hrs.         |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| Other Study Effort   |  |                                     |   |                |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| ▪ Coursework   |  |                                     |   | 20 Hrs.        |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| Total Study Effort   |  |                                     |   | <b>35 Hrs.</b> |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |
| <b>Reading List and References</b>                                     | <p><b><u>Reading List</u></b></p> <p>The teaching notes uploaded to the Blackboard platform.</p> <p><b><u>References:</u></b></p> <ol style="list-style-type: none"> <li>1. Labour Department publications on occupational safety available at:<br/><a href="http://www.labour.gov.hk/eng/public/content2_8.htm">http://www.labour.gov.hk/eng/public/content2_8.htm</a></li> <li>2. Labour Department publications on occupational health available at:<br/><a href="http://www.labour.gov.hk/eng/public/content2_9.htm">http://www.labour.gov.hk/eng/public/content2_9.htm</a></li> <li>3. Hong Kong Law Cap 59, Cap 509 and Cap 282 available at:<br/><a href="http://www.legislation.gov.hk/eng/index.htm">http://www.legislation.gov.hk/eng/index.htm</a></li> </ol> |                                     |   |                |  |                    |               |                                     |  |  |           |   |   |               |         |            |   |   |         |        |                    |   |   |       |     |              |  |  |  |         |                    |  |  |  |                |