Assignment brief

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<th>Qualification</th>
<th>Unit number and title</th>
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<td>BTEC Level 3 Engineering Specialist Diploma (Operations and Maintenance)</td>
<td>Unit: Monitoring and Fault Diagnosis of Engineering Systems</td>
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| Student name | Assessor name: Dean Stephenson |

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<th>Date issued:</th>
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<td>October 10, 2015</td>
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| Assignment title | Assignment 1: Health and Safety in System Monitoring and Fault-finding |

Context:

A good awareness health and safety, and current legislation is essential in ensuring safe working practices on site including but not limited to the monitoring and fault diagnosis on engineering plant and equipment such as engines and other rotating equipment, mechanical equipment, production machinery, process equipment, electrical and electronic equipment, fluid power, environmental and control equipment and other relevant engineering systems and equipment, at sub-assembly/component level. Safety measures are concerned with controlling and reducing risks to anyone who might be affected by these activities.

The purpose of this assignment is to provide a framework where the learner:

1. is able to list the aspects of health and safety legislation that apply to monitoring and fault diagnosis of an engineering system (P1)
2. is able to describe the workplace hazards and safe working practices relevant to specific monitoring and fault diagnosis situations (P2)

Scenario:

As a newly appointed supervisor in the operations and maintenance department, you are charged with the responsibility to carry out an investigation of practical health and safety issues and legislation relating to system monitoring and fault diagnosis. As an outcome of this investigation you have decided to produce a safety document aimed at first line workers and new entrants to the department.

Task 1

The document should show:

I. the health and safety requirements of the area in which they are carrying out the fault diagnosis activities, guided by organisational standards, legislation and government regulations
II. How to use established safety guideline, methods/procedures and local legislation to recognise hazards associated with carrying out fault diagnosis on engineering plant and equipment and how to reduce risk and injury
III. how the hazards that offer the most risk are controlled.

IV. the specific safety precautions to be taken when carrying out the fault diagnosis on the particular engineering plant and equipment

V. the isolation and lock-off procedures or permit-to-work procedure that applies

VI. the importance of wearing protective clothing and other appropriate safety equipment during the fault diagnostic activities

VII. how to report incidents, accidents and unsafe working conditions

VIII. how they could meet their workplace safety responsibilities

IX. a list of avenues of recourse for health and safety rights violations and for failures to meet responsibility

Task 2

You are required to write a brief summery that describes the potential impact this document could have on:

1. the working practices of first line workers within your company

2. the responsibility these requirements place on you the supervisor and first line workers in your charge

3. the impact on the organisation.

Sources of information

[insert useful publications, websites, etc.]