



SUBJECT and GRADE	Electrical Technology Grade 12	
TERM 1	Week 2	
TOPIC	OHS lesson 2	
AIMS OF LESSON	Understand the basics of Occupational Health and Safety with reference to: Purpose of the act, duties of the employer and employee, function of health and safety representative, reporting of incidents, victimization and offences and penalties	
RESOURCES	Paper based resources	Digital resources
	<i>Electrical Technology Grade 12 textbook (pg. 7-19)</i> <i>NSC Exam Papers November 2018 – 2020</i> <i>Grade 12 exemplar paper 2018</i>	<i>You-tube links and web pages as per this lesson</i> <i>SEE END OF LESSON FOR YOU-TUBE LINKS</i>
INTRODUCTION	<p>1. For this lesson, you should know the work done in grade 11 on the OHS Act With reference to general safety, emergency procedures, principles of firefighting, procedures when electrocuted, and application of general first aid.</p> <p>2. The purpose of the lesson to understand the consequences of the OHS Act with reference to: Risk analysis, human rights in the workplace as well as work ethics.</p> <p>3. This lesson must be done in conjunction with the text book.</p>	
CONCEPTS AND SKILLS	<p>Introduction</p> <p>A lot of the work covered in this section of the work is revision on work that was done in grades 10 & 11.</p> <p>The following topics is for revision purposes:</p> <ul style="list-style-type: none"> • Unsafe actions • Unsafe conditions • Emergency/ evacuation procedures • Principles of fire fighting • Electric shock/electrocution procedures • General first aid – stop of bleeding, burns and chemical safety during the making of PCB's, etc. 	<p>Work ethics</p> <p>A good work ethic is important for any company to achieve its goals. Good work ethics must start from CEO right down to the lowest paid worker. The list below are some examples of good work ethics.</p> <p>Integrity:</p> <p>Integrity is the quality of being honest, loyal and dependable.</p>



Risk analysis

Risk analysis is the process of defining and analyzing the dangers to individuals, businesses by natural or human caused adverse events. A risk analysis can be either quantitative or qualitative.

Quantitative risk analysis – this is an attempt to numerically determine the chances of various adverse events and the likely extend of the losses/damages.

Qualitative risk analysis – this involves defining the various threats, determining the extend of such a thread, and planning counter measures should a risk occur.

Five steps in risk analysis

1. Identification of the risk/hazard
2. Analyzing the risk
3. Evaluating the risk
4. Treat the risk
5. Review the risk



Sense of Responsibility:

This refers to your duty to deal with something given to you. Being responsible means doing what you asked to do, being on time at work, giving one's best to complete a job. All of the above will lead to increased productivity for the company.

Emphasis on quality:

Some employees only do the bare minimum, just enough to keep their job intact. Employees with strong work ethic, cares about the quality of their work, impacting positively on the quality of the company.

Discipline:

This is all about obeying rules or a code of conduct of the company. Good disciplined employees stay focus and is determined to complete an assignment successfully.

Sense of teamwork:

Teamwork is about the combined action of a group, having a positive impact on especially the effectiveness and efficiency of the company. Good teamwork helps a team meets its goals and deliver quality work. Teamwork involves respecting the rights of your co-worker.



Human rights in the workplace

Human rights ensure that your human dignity is not infringed, that you are treated with dignity, respect and not exploited. The following are some of your rights at work.

- Your right to earn a living wage
- Your right to work reasonable hours
- Your right to fair labour practices
- Your right to belong to a trade union
- Your right not to be discriminated against because of sex, religion, language, disability or race.

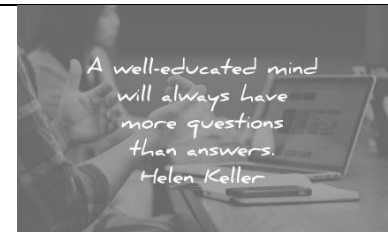


ACTIVITIES/ASSESSMENT

NB: Please first do the questions on your own first, before consulting any resources.
 Time per question (1 mark = 1 minute)
 Do the end of chapter activity - do all the questions related to this lesson. (page 20)
 Refer to the latest THREE Matric question papers and do the questions relating to the work covered in this lesson.

CONSOLIDATION

- You have discovered a basic introduction to the OHS act relating to: Risk analysis, human rights in the workplace as well as work ethics.
- Well done with the completion of this lesson
- Continue to become a specialist in what you love.
- We no longer live in the era of pen writers, but in that of the engineer, craftsman and specialist.



VALUES

Your right to a safe and healthy work environment is a basic human right and you should be aware of it. Your health and safety must be respected by employers and you must in return also know what



	<p><i>their rights as employees is. Employer and employee must respect each other. Workplaces should be kept clean and tidy at all times. A clean workplace is a safe workplace.</i></p>
YOU-TUBE LINKS	<p>https://www.mindtools.com/pages/article/newtmc_07.htm (Risk analysis) https://projectriskcoach.com/evaluating-risks-using-quantitative-risk-analysis/ (Risk analysis) https://www.projectmanager.com/training/how-to-analyze-risks-project (Risk Analysis) https://www.indeed.com/career-advice/career-development/work-ethic-skills (Work ethics) https://www.youtube.com/watch?v=zPsoFhUDLuU (Ethics)</p>