




SUBJECT and GRADE	Electrical Technology Grade 12	
TERM 2	Week 4	
TOPIC	3-phase Induction Motors	
AIMS OF LESSON	<p>Three phase squirrel cage induction motor operation, construction, advantages and applications</p> <p>Calculation of power, slip and efficiency</p> <p>Characteristic curve of speed vs torque</p>	
RESOURCES	Paper based resources	Digital resources
	Electrical Technology Grade 12 text Book (pg. 126-132)	<p>YouTube links and web pages as per this lesson</p> <p>NSC Exam Papers November 2018 – 2019</p> <p>Grade 12 exemplar paper 2018</p> <p>SEE END OF LESSON FOR YOUTUBE LINKS</p>
INTRODUCTION	<ul style="list-style-type: none"> You need to know the basic principle of magnetism as well as the operation and construction of the 1-phase motor to understand the 3-phase motor better This lesson is all about understanding the basic construction, operation advantages and applications of 3-phase motors Calculations with regards to power, slip and efficiency will also be done as well as understanding the characteristic curve of speed vs torque. This lesson must be done in conjunction with your text book 	
CONCEPTS AND SKILLS	<p>Construction: (pg. 126 -128)</p> <p>Squirrel cage induction motors are so-called because the shape of their rotor – the inner component connected to the output shaft – looks like a cage.</p> <p>These motors consist of stators(stationary) and rotors (rotational) motor components, respectively. The stator - the motor housing - contains windings of wire connected to an AC power source, and the rotor – the free moving rotor - interact with the stator's coils via electromagnetism. The electromagnetic field (EMF) generated in the stator induces an opposing EMF in the rotor and therefore creates rotational energy from electromagnetic induction.</p> <p>The reasons for having a skewed rotor is: (pg. 127)</p> <ul style="list-style-type: none"> ➤ Reduces magnetic hum ➤ Increase rotor resistance 	<p>Construction of 3-phase squirrel cage induction motor</p> 

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