



HALIBURTON HIGHLANDS SECONDARY SCHOOL

Technology Department



Course Code: TIJ10
Course Name: Exploring Technologies
Level: Grade 9
Block:A

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Course Overview:

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields.

Course Expectations:

Technology Fundamentals

- A1.** demonstrate an understanding of the fundamental concepts and skills required in the planning and development of a product or service, including the use of a design process and/or other problem-solving processes and techniques;
- A2.** demonstrate the ability to use a variety of appropriate methods to communicate ideas and solutions;
- A3.** evaluate products or services in relation to specifications, user requirements, and operating conditions.

Technology Skills

- B1.** use problem-solving processes and project-management strategies in the planning and fabrication of a product or delivery of a service;
- B2.** fabricate products or deliver services, using a variety of resources.

Society and the Environment

- C1.** demonstrate an awareness of the effects of various technologies on the environment;
- C2.** demonstrate an awareness of how various technologies affect society, as well as how society influences technological developments.

Health, Safety and Careers

- D1.** follow safe practices and procedures when using materials, tools, and equipment;
- D2.** identify careers in various technological fields, and describe the educational requirements for them.

Evaluation Structure:

Summative assignments, tests and final exams are evaluated using four Categories of Achievement. In this course, the weight given to each category of Achievement is as follows:

Knowledge/Understanding	20%	Thinking/Inquiry	20%
Communication	20%	Application	40%

The above is reflected both in the term work (worth 70% of the final mark) and the summative work (worth 30% of the final mark). Summative work consists of a Culminating Activity (worth 30%).

Learning Skills:

Feedback will also be provided for student learning skills. Students are expected to reflect the following skills throughout the course:

Responsibility Organization Independent Work Collaboration Initiative Self-Regulation

Students will receive each of the following letter grades:

E –Excellent, G – Good, S – Satisfactory, N - Needs Improvement

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Welcome to Exploring Technologies

COURSE EXPECTATIONS AND EVALUATION POLICY

Attendance

Regular attendance is essential for academic success in school. It is the student's responsibility to inform the teacher *beforehand* of any planned absences. It is the student's responsibility to get notes assignments and any other information missed while absent from class. This should be done on the student's first day back, either during class, lunch hour or after school. **Any student that is truant the last three days of a semester will not be allowed to write his/her final examination.**

Tests

Students must be prepared to write tests on the assigned day. Students who miss a test for no valid reason will receive a mark of zero. Any student who knows that he/she will be absent for a valid reason during a test must make arrangements with the teacher *before* the period in which the test is to be written. Students who miss a test for a valid reason should be prepared to write the test on the first day back at school or should make suitable arrangements with the teacher on the first day back.

Assignments

If a student is absent on the day when work is assigned, it is his/her responsibility to get the assignment from the teacher. If a student is absent when an assignment is collected, it is to be submitted at the beginning of the period on the first day back.

Late Assignment Policy

Assignments are to be complete and handed in on due dates. There will be consequences if assignments are not handed in on due dates. These consequences will follow the Late Assignment Policy.

Plagiarism

Plagiarism is the act of taking someone else's ideas or work and passing it off as your own. Copying another student's work is cheating, and is also called plagiarism. **If a student submits plagiarized work, it may receive a zero. The student will also be sent to discuss matters with the principal, and the assignment will have to be redone. Plagiarism is a serious offence and students who engaged in it at the college or university level are often expelled.**

Exams

In an effort to improve student task completion and to reward consistent daily contributions, students who earn a term average of 70% or greater in any grade 9 course, with all assignments completed and submitted on or before the first deadline, will be exempt from their Final Exam.

As well, students must not have accumulated more than 15 missed classes (all reasons, including illness) in the semester of their current course, to also be eligible for the exam exemption for each of their courses.

And lastly, students must also be in "**Good Standing.**" A student's "Good Standing" may be jeopardized due to truancy, behaviour referrals, suspensions, etc. which will remove the exam exemption for their current course(s).



SHOP SAFETY AGREEMENT



As a student in this shop, there are a few safety rules you must observe. Rules will be kept to a minimum, but those we do keep are for a definite reason. Knowing the reason for each rule should make it a lot easier to remember and observe that rule.

1. Students must never enter the shop unless the teacher is present.
2. Power equipment must never be operated unless a teacher is in the shop.
3. Do not run in the shop.
4. "Horseplay" will not be tolerated in the shop.
5. Use care and common sense when using any sharp tool – always keep hands and fingers behind the tool's cutting edge.
6. Protective equipment, such as (goggles, etc.) MUST be worn when using any power tools or machines.
7. Long hair, loose clothing and jewelry must be restrained or removed. See general safety rules.
8. Never use any machine until you personally have been given instruction by the teacher about the use of that machine.
9. Report any damaged/defective tools or machines to the teacher immediately.
10. If you cut or scratch yourself, report it to the teacher immediately and receive treatment.
11. Keep benches and floors clean, replace tools as soon as you are finished and place scrap in proper bins.
12. When finished with oil or paint soaked rags, dispose of in specially marked safety bins.
13. In the event of a school fire drill, or an actual fire in the shop, WALK out quickly and silently.
14. Welding goggles and leather aprons must be worn during any welding or forging process.
15. Only one operator per machine is permitted.
16. Use compressed air with caution – wear eye protection, direct air away from eyes, skin and any opening in the body. Beware of flying particles. Do not use compressed air to blow dust from clothing.

I, _____ have read this Shop Safety Agreement . I understand and will obey these rules.

Signature: _____ Date: _____



SHOP PRACTICE AGREEMENT



Shop students are reminded that a shop program is more closely related to the workplace than any other school subject. Shop work is intended to train students not only in the knowledge and care of tools and machines and in the skills of their use, but also in forming desirable work habits which will assist them in many types of work. How you work and conduct yourself is called “shop practice”. It includes the following topics:

1. Tool Care – handling tools carefully, keeping them properly adjusted avoiding such practices as dropping them or laying them down carelessly; using machinery carefully and safely.
2. Technique – neatness and accuracy, avoiding awkward and careless methods of working.
3. Effort – nothing but your best is good enough; loafing and unnecessary conversations do not go unnoticed.
4. Cooperation – sharing tools and machines, taking your turn, planning your activities, assisting shop economy by avoiding waste, promptness in arriving for class and in cleaning up when signal is given.
5. Dependability – being reliable in carrying out shop duties assigned to you; checking your bench tools and equipment, reporting to the teacher any damaged or defective tools, breakages and errors in your work.
6. Safety Practices – keeping in mind safe practices and rules, a healthy respect for power machinery and respect for other students’ safety.
7. Resourcefulness – learning to think for yourself, following instructions and avoiding unnecessary questions.
8. Deportment – being attentive during lessons and working quietly at your job; horseplay, loud talk, whistling and noisy conversations have no place in the shop.
9. Courtesy – politeness and good manners is a requirement in getting along with people.
10. Attitude – make the best of every job and be cheerful and pleasant about it.
11. Health Problems – inform the teacher of any specific medical problems that may be aggravated by the shop environment.

I HAVE READ THIS SHOP PRACTICE AGREEMENT.

Signature

Date