HALIBURTON HIGHLANDS SECONDARY SCHOOL

Technology Department

Evaluation Policy

for Manufacturing Technology: TMJ2O

Course Code:	**TMJ2O**		
Level:	**Grade 10, open**	Teacher Contact Information:	
Credit Value:	**1.0**	Teacher:	**Mr. D. Fockler**
Period:	**Period 3** (*on a Week 1*)	By Phone:	**(705) 457-2950 ext: 515**
Room Number:	**13**	By E-mail:	**d.fockler@tldsb.on.ca**
Department Head:	**Mr. Fockler**		

Course Description:

This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing, and will learn about secondary and postsecondary pathways leading to careers in the industry.

Prerequisite: None

Strands of Study and Overall Expectations include:

Manufacturing Technology Fundamentals

A1. demonstrate an understanding of the manufacturing industry and of processes and technologies related to manufacturing;
A2. demonstrate an understanding of how a design process is used in the planning and development of a manufacturing project;
A3. identify and explain how various materials, tools, and equipment are used in the manufacture of products.

Manufacturing Technology Skills

B1. apply an appropriate design process to plan and develop a product;
B2. develop and use a manufacturing process plan to produce a product;
B3. use hand tools, machine tools, power tools, materials, and equipment safely and correctly in the manufacture of a product;
B4. demonstrate the use of metrology skills to measure, lay out, and inspect a product.

Technology, Society and the Environment

C1. demonstrate an understanding of ways in which the manufacturing industry affects the environment;
C2. demonstrate an understanding of ways in which the manufacturing industry affects society.

Health, Safety and Careers

D1. identify and demonstrate compliance with health and safety legislation, standards, and procedures related to the manufacturing industry;
D2. describe career opportunities in the manufacturing industry and the education and training required for these careers.

Efforts will be made to meet the individual learning needs of students in order to ensure these expectations are being met.

Course Outline / Units of Study:

1. Drafting and Design
2. Plastic Fabrication
3. Sheet Metal Fabrication
4. Mass Production
5. Welding
6. Independent Project

Evaluation Structure:

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 culminating activities (worth 30% of the final mark). The culminating activity is a 20% project and a 10% final exam.

Resources:

Textbook:

Manufacturing and Automation Technology

Policy Document:

The Ontario Curriculum Grades 9 and 10
Technology Education (Revised 2009)

Evaluation:

Students will be assessed & evaluated according to the work produced & skills displayed. Methods of providing feedback will include assessing work in process & evaluating completed assignments, tests, co-operative learning activities, simulations and presentations. Peer & self-evaluations will also be utilized.
Student marks will be determined by evaluating process & product according to 4 categories & 4 levels. Please see the chart below for specific skills and key words used to determine student competency in the different categories.

Category	Level 1: 50-59%	Level 2: 60-69%	Level 3: 70-79%	Level 4: 80-100%
Knowledge/Understanding ➢ Knowledge of facts & terms ➢ Understanding of concepts & relationships	Limited display of knowledge, skills and ability to apply concepts	Some success in displaying knowledge, skills and application of concepts	Considerable display of knowledge skills and ability to apply concepts	Thorough understanding of concepts and ability to communicate, think creatively and apply concepts
Thinking/Inquiry ➢ Critical thinking skills ➢ Creative thinking skills ➢ Inquiry Skills				
Communication ➢ Communication of ideas & information ➢ Use of symbols & visuals ➢ Oral & written communication				
Application ➢ Applications in familiar contexts ➢ Transfer of concepts to new contexts ➢ Making logical conclusions and predictions ➢ Use of technology ➢ Making connections				

Learning Skills:

Students are expected to reflect the following skills throughout the course:

Responsibility: Fulfils responsibilities. Completes & submits work ON TIME. Manages own behaviour.
Organization: Devises & follows a plan. Establishes priorities & manages time. Uses resources to complete tasks.
Independent Work: Monitors, assesses & revises plans to complete tasks & meet goals. Uses class time wisely. Follows instructions with minimal supervision.
Collaboration: Accepts various roles in a group. Responds positively to ideas, opinions of others. Builds healthy peer relationships. Resolves conflict and builds consensus. Shares resources and promotes critical thinking to solve problems and make decisions.
Initiative: Looks for and acts on new ideas. Innovative and takes risks. Demonstrates curiosity and an interest in learning. Approaches new tasks with a positive attitude. Advocates for all appropriately.
Self-Regulation: Sets goals. Seeks help when needed. Reflects on own strengths, needs & interests. Identifies learning opportunities, choices and strategies. Perseveres and makes an effort when responding to challenges.

Students will receive the following letter grades: **E** - Excellent **G** - Good **S** - Satisfactory **N** - Needs Improvement

HALIBURTON HIGHLANDS SECONDARY SCHOOL

COURSE EXPECTATIONS AND EVALUATION POLICY

Welcome to TMJ2O

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 any 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 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 "Not Done is not Acceptable"

Please adhere to our new HHSS Late Assignment Policy. Students received this in their period one class on the first day of the semester.

Plagiarism

Plagiarism is the act of taking someone else's ideas or writing and passing it off as your own. Whatever material students consult in the preparation of essays/projects should be properly credited to the writer or source. Material may be quoted if the student identifies it as a quotation and cites the author. Copying another student's work is cheating, and is also called plagiarism. **A first offense may result in a mark of zero or an opportunity to redo/resubmit the evaluation, after consultation with the student, parent, teacher, department head and school administrator. A second offense will result in a mark of zero, a call home and the student will be referred to the Principal. A third offense will result in a mark of zero and may result in an in-school suspension.**

I hereby acknowledge that I am fully aware of the expectations and evaluation in Grade Ten Manufacturing.

Student Signature: _____ **Parent's/Guardian Signature:** _____

Should it be necessary to contact you about your child's progress, it would be helpful if you would provide the appropriate information below:
Parent(s)/Guardian(s):

_____ Phone: (H) _____ (W) _____

E-mail: _____

_____ Phone: (H) _____ (W) _____

E-mail: _____

For students 18 years of age and over or who will turn 18 during the course:
I give permission for my teacher to contact my parents/guardians with regard to this course: _____