I. COURSE DESCRIPTION

This practical, hands-on course covers basic safe operation techniques and hazard awareness for those intending to operate Skid Steer Loaders and Compact (mini) Excavators. These machines are commonly used in the Parks, Landscape and Construction sectors. Upon completion, trainees will be familiar with safe operation practices, daily and scheduled maintenance, safe lifting capacities and connecting and disconnecting various attachments.

NOTE: It is understood that upon successful completion of this course further experience and hours of operation of these machines will be required to become a fully competent operator.
II. LEARNING OUTCOMES

Upon completion of the Humber College / Ontario Parks Association Skid Steer Loader and Compact (Mini) Excavator Training Course, the trainee will be able to:

1. Understand and locate the safety features
2. Demonstrate safe entry, parking and exit of machines
3. Locate controls and identify their functions
4. Explain how the distribution of weight affects a Skid Steer Loader and Compact (Mini) Excavator’s steering and stability
5. Describe the differences between a Tipping Load and a Rated Operating Capacity
6. Understand the hydrostatic transmission, and how it affects the loader and operation of boom
7. Understand the reasons as to why regular maintenance is important and locate key lubrication points
8. Understand safety maneuvers including safe travel and working with or without a load
9. Demonstrate the procedure for changing attachments and explain the reasoning behind using various attachments
10. Operate with work site efficiency and hazard awareness

III. ESSENTIAL EMPLOYABILITY SKILLS

Upon successful completion of this course, students will demonstrate the following competencies:

Practical Skills: basic operation and safety awareness including daily maintenance, hazard identification and operational best practices.

Communication Skills: reading texts/textbooks, writing tests, listening during lectures, and participating in classroom discussions and oral presentations.

Personal Skills: adhering to Humber’s “Standards of Classroom Conduct”; time-management skills by emphasizing punctuality, class attendance and responsibility; meeting deadlines and completing assignments/essays on time; analyzing one’s biases, beliefs and presuppositions which lead to greater understanding of other peoples values, beliefs and ideas; enhancement of personal judgment and adaptability to a changing world.
Interpersonal Skills: analyzing opposing views issues and problems studied in the course; participating in classroom discussions where diverse views are expressed; studying the underlying reasons for cultural diversity and different world-views; learning to listen, understand and respect other people who hold different opinions and views.

Thinking Skills: problem solving, critical thinking, creative thinking and research skills are demonstrated in lectures, and encouraged in class discussions; these skills are assessed on essays/assignments and tests/exams.

Mathematic Skills: critically evaluating statistics and new research relevant to the topics covered in the course.

Computer Application Skills: web-based supplementary course work is encouraged; word processing; search of research databases and Internet for research essays; using Blackboard and email to communicate with the professor.

IV. COURSE CONTENT OUTLINE

Trainees are expected to demonstrate an acceptable level of professionalism by being on time for class and participating in both individual and group activities. As this is a hands-on course, much attention will be paid to safe work practices and following industry best practices.

1. Introduction and explanation of liability waiver
2. Component identification
3. Design concepts and terminology
4. Rated operating and lifting capacity
5. Hydrostatic transmission operation
6. Maintenance (Daily and Scheduled)
7. Operating controls
8. Safety features
9. Basic operation
10. Attachments (basic connect and disconnect functions)
11. Safe traveling on site
12. Working efficiently
13. Safety precautions and workplace hazards
14. Ride and drive
15. Review
16. Test
V. REQUIRED TEXT(S), PERSONAL PROTECTIVE EQUIPMENT AND OTHER LEARNING MATERIALS

Workbooks will be provided for each trainee. IMPORTANT NOTE: Trainees must attend course with steel toed safety shoes, hard hats and safety gloves.

VI. ADDITIONAL REFERENCES

N/A

VII. CLASS FORMAT

Lecture and lab.

VIII. ATTENDANCE REQUIREMENTS

No one shall be admitted to class if more than 10 minutes late.

IX. METHOD OF STUDENT EVALUATION

Passing mark is 60%

- Practically Demonstrated Ability: 50%
- Theory and Safe Practices: 50%

X. MISSED/FAILED/SUPPLEMENTAL TESTS, EXAMINATIONS AND PROJECTS

All students are expected to complete all assignments and write all tests/exams during the normally scheduled dates and times.

Supplementals are not available in this course unless extraordinary, documentable circumstances have prevented a student from participating in scheduled course activities. All applications for supplementals are made to the course instructor.

Make-up Policy: Students are expected to write tests and submit assignments on time. Anyone unable to write a scheduled test due to exceptional circumstances must inform the professor as soon as possible. A maximum of ONE make-up test, which must be approved by the professor, will be administered at the end of the course.

Note: This is a one day course. Full attendance is mandatory and no make-up examinations or projects are available.
XI. LATE ASSIGNMENTS

Late assignments will be penalized 10% a day, as per the value of the assignment.

XII. DISCRIMINATION AND HARASSMENT

At Humber College, students, staff and faculty represent the broad spectrum of diversity and richness that is characteristic of our society. All students and employees have the right to study, live and work in an environment that is free from discrimination and harassment. It is therefore the policy of Humber College that its working, living and learning environments assert the personal worth and dignity of each individual. In order to achieve this objective, Humber College will not tolerate any form of discrimination or harassment in its employment, education, accommodation, or business dealings. Information and assistance are available from Nancy Simms, Manager, Human Rights and Diversity at (416) 675-6622 extension 4425 or by email at nancy.simms@humber.ca

For further information please visit www.hrs.humber.ca/diversity

XIII. STANDARDS

The style of all written work should be clear and concise. The characteristics of such a style include grammatical correctness, appropriate vocabulary, clear sentences and logical organization. It is the student’s responsibility to keep copies of their work in the course.

XIV. ACADEMIC REGULATIONS

Students are responsible for being aware of academic regulations which can be found on Humber’s website at http://fulltimestudents.humber.ca/academicregulations. Important information regarding Academic Integrity, course drop dates and appeal procedures should be reviewed.

The School of Applied Technology expects all students to maintain a high standard of academic integrity by submitting original work and clearly documenting material that is derived from other sources. Failure to do so will be deemed to be academic misconduct as outlined in the Academic Regulations.