DURHAM COLLEGE
SUCCESS MATTERS

SchSkill Trd, Appr &Renew Tech

Basic Carpentry

2021-22 Academic Year

Program	Year	Semester
START-Trades Fundamentals	1	2

Course Code:	TFBC 2102	**Course Equiv. Code(s):**	N/A
Course Hours:	42	**Course GPA Weighting:**	3
Prerequisite:	N/A		
Corequisite:	N/A		
Laptop Course:	**Yes** [ ] **No** [X]		
Delivery Mode(s):	**In class** [X] **Online** [X] **Hybrid** [ ] **Correspondence** [ ]		

Pandemic remote teaching delivery mode	[ ]	**Fully asynchronous**	[X]	**Combined asynchronous and synchronous**
Remote proctoring required	**Yes** [ ]	**No** [X]		
Authorized by (Dean or Director):	Rebecca Milburn	**Date:**	June 2021	

Prepared by		
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Course Description:

Successful completion of this course will provide the learner with the basic knowledge and formulas related to the carpentry industry, with a strong emphasis on safety in the shop, and around a construction site. It will provide an insight into further studies should the student opt to enroll in the 2 year Building Construction technician diploma program.

Campus Closure Notice

In the event of a campus closure during which time classes cannot be conducted or attended in person, course delivery will be conducted remotely where possible. Should teaching and learning resume on campus, students may be organized into smaller groups for classroom delivery, in accordance with directions from public health authorities. In either situation, the learning plan sequence and/or evaluation methods may be adjusted to address topics requiring hands-on, practical learning activities.

Subject Eligibility for Prior Learning Assessment & Recognition (PLAR):

Prior Learning Assessment and Recognition (PLAR) is a process a student can use to gain college credit(s) for learning and skills acquired through previous life and work experiences. Candidates who successfully meet the course learning outcomes of a specific course may be granted credit based on the successful assessment of their prior learning. The type of assessment method (s) used will be determined by subject matter experts. Grades received for the PLAR challenge will be included in the calculation of a student's grade point average.

The PLAR application process is outlined in http://www.durhamcollege.ca/plar. Full-time and part-time students must adhere to all deadline dates. Please email: PLAR@durhamcollege.ca for details.

PLAR Eligibility

Yes [ ] **No** [X]

PLAR Assessment (if eligible):

- [ ] Assignment
- [ ] Exam
- [ ] Portfolio
- [ ] Other

Course Learning Outcomes

Course Learning Outcomes contribute to the achievement of Program Learning Outcomes for courses that lead to a credential (e.g. diploma). A complete list of Vocational/Program Learning Outcomes and Essential Employability Skill Outcomes are located in each Program Guide.

Course Specific Learning Outcomes (CLO)

Student receiving a credit for this course will have reliably demonstrated their ability to:

CLO1	Complete all trade related calculations in a successful manner related to sustainable carpentry.
CLO2	Apply basic trade knowledge and related terminology to communicate effectively in carpentry and construction setting.
CLO3	Identify educational pathways and career opportunities within the trade of carpentry including both post-secondary and apprenticeship models as well as various job opportunities within this profession.
CLO4	Complete basic carpentry project(s) using appropriate tools, techniques, equipment and supplies.
CLO5	Adhere to all health and safety requirements in the carpentry shop.

Essential Employability Skill Outcomes (ESSO)

This course will contribute to the achievement of the following Essential Employability Skills:

- [ ] EES 1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.
- [X] EES 2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.
- [X] EES 3. Execute mathematical operations accurately.
- [ ] EES 4. Apply a systematic approach to solve problems.
- [ ] EES 5. Use a variety of thinking skills to anticipate and solve problems.
- [X] EES 6. Locate, select, organize, and document information using appropriate technology and information systems.
- [X] EES 7. Analyze, evaluate, and apply relevant information from a variety of sources.
- [ ] EES 8. Show respect for the diverse opinions, values, belief systems, and contribution of others.
- [X] EES 9. Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.
- [X] EES 10. Manage the use of time and other resources to complete projects.
- [X] EES 11. Take responsibility for one's own actions, decisions, and consequences.

Evaluation Criteria:

The Course Learning Outcomes and Essential Employability Skills Outcomes are evaluated by the following evaluation criterion.

Evaluation Description	Course Learning Outcomes	EESOs	Weighting
Quiz: Quiz 1 Construction Safety Practices (Hand tools)	CLO1, CLO4, CLO5	EES2, EES6, EES7, EES11	10
Quiz: Quiz 2 Construction Safety Practices (Power tools)	CLO4, CLO5	EES2, EES6, EES11	10
Lab Activity: DOS 1 (dimension exercise with hand tools)	CLO4, CLO5	EES2, EES3, EES6, EES10, EES11	10
Lab Activity: DOS 2 (joint frame with hand and power tools)	CLO4, CLO5	EES2, EES3, EES6, EES7, EES11	10
Lab Activity: Project in process.	CLO5	EES11	0
Presentation: Presentation-Lecture	CLO2	EES11	0
Case Study: Case Study Assignment (Carpentry)	CLO2, CLO3	EES2, EES6, EES7, EES10, EES11	10
Lab Activity: DOS 3 (layout project #1)	CLO1, CLO2, CLO4, CLO5	EES2, EES3, EES6, EES7, EES9, EES10, EES11	10
Lab Activity: DOS 4 (Framing project.)	CLO1, CLO4, CLO5	EES2, EES3, EES6, EES7, EES10, EES11	10
Lab Activity: DOS 5 Take away project (cutting board)	CLO4, CLO5	EES9, EES10, EES11	10
Test: Final Test	CLO1, CLO2, CLO3, CLO5	EES2, EES3, EES6, EES7, EES10, EES11	15
Lab Activity: Demolition and shop clean up	CLO4, CLO5	EES9, EES10, EES11	5
Total			**100%**

Notes:

1. DOS (demonstration of skills) will be graded based on accuracy of work, as well as how well an individual follows directions given by instructor. Students must arrive on time to tests with the appropriate materials (e.g. pens, pencils, calculator).
   No extra time will be added to the scheduled class time. Cell phones and all devices must be off of the desks. No music or ear buds allowed. Anyone caught cheating will receive an automatic zero, and the person they are cheating off of may also receive a zero at the discretion of the professor.
2. Final test will be an accumulation of information presented in weeks 1-13 in both theory and lab, as presented by instructor, and will be tested by multiple choice, short answer, and true and false questions.
3. The opportunity to write a missed test may be granted based on meeting the following criteria. Notifying the professor prior to the scheduled test time and or submitting appropriate doctors note to validate the absence.

Opportunity to write a test later than the scheduled date is at the discretion of the professor.

4. For all tests, examinations and assignments, a deduction of 1/2 mark per error to a maximum of 10% will be made for incorrect use of terminology.
5. A detailed handout outlining expectations and evaluation criteria will be distributed for all assignments. Some assignments involve partner and/or group work. If a student cannot work collaboratively within a group the student will receive a mark of zero (0) for this assignment.
6. DC Connect drop box assignments must be submitted to the drop box. Work not submitted or completed for marking in the allotted time may be a given a mark of zero (0), or marks may be deducted for lateness at the discretion of the professor. (20% per day, not accepted after the 3rd day)
7. Work not submitted in the allotted time may be a given a mark of zero (0), or marks may be deducted at the discretion of the professor. (Shop assignments automatic 25% deduction if late, and not accepted after 1 additional shop class from original due date)

Required Text(s) and Supplies:

1. Green Patch Safety Footwear
2. Safety Glasses
3. 3 ring binder and pencil

Recommended Resources (purchase is optional):

1. Tool belt with tape measurer and pencil.
2. DC Connect, library, internet

Policies and Expectations for the Learning Environment:

General Policies and Expectations:

General College policies related to	General policies related to
+ Acceptable Use of Information Technology	+ attendance
+ Academic Policies	+ absence related to tests or assignment due dates
+ Academic Honesty	+ excused absences
+ Student Code of Conduct	+ writing tests and assignments
+ Students' Rights and Responsibilities can be found on-line at http://www.durhamcollege.ca/academicpolicies	+ classroom management can be found in the Program Guide (full time programs only) in MyCampus http://www.durhamcollege.ca/mycampus/

Course Specific Policies and Expectations:

1. Theory tests will be a combination of multiple choice and short answer.

2. For all tests, examinations and assignments, a deduction of 1/2 mark per error to a maximum of 10% will be made for incorrect use of terminology.

3. A detailed handout outlining expectations and evaluation criteria will be distributed for all assignments. Some assignments involve partner and/or group work. If a student cannot work collaboratively within a group the student will receive a grade of "0" for this assignment

4. Students will be given the opportunity to re-write a test if proper documentation is provided (please see the program guide for details).

5. Test dates are tentative and will be confirmed by the professor.

6. An interim mark will be determined for all students to identify their academic progress. This mark will be based on the results of the first 3 quizzes.

7. Attendance is mandatory in both shop and classroom in order to achieve a passing mark. Workshop and lab projects cannot be completed outside the scheduled times or off site.

8. Work not submitted in the allotted time may be a given a mark of zero (0), or marks may be deducted at the discretion of the professor.

9. No food is allowed in the shop area at any time.

10. Breaks are to be taken as a whole class and will be announced by your professor. No student is to continue work in the shop while the class is on break.

11. All safety issues must be addressed before entering the shop area. These will include the use of safety shoes, glasses, and any other item your professor deems necessary for a safe environment.

12. Shorts and sandals are not appropriate clothing to be worn in the shop for safety reasons. Students must remove all loose fitting clothing, necklaces, jewelry, etc. that could be a danger if operating machinery in the shop

13. No student will enter the shop/class with a cell phone, or any other electronic device

14. Out of Class Expectations: In order to give yourself the best chance for success, it will be important to be prepared for classroom and Laboratory activities. This will include reading appropriate objectives, textbook assignments prior to class, and completing any homework assignments.

15. Students are expected to utilize DC Connect regularly for homework assignments, course announcements, and to other relevant information.

General Course Outline Notes:

1. Students should use the course outline as a learning tool to guide their achievement of the learning outcomes for this course. Specific questions should be directed to their individual professor.
2. The college considers the electronic communication methods (i.e. DC Mail or DC Connect) as the primary channel of communication. Students should check the sources regularly for current course information.
3. Professors are responsible for following this outline and facilitating the learning as detailed in this outline.
4. Course outlines should be retained for future needs (i.e. university credits, transfer of credits etc.)
5. A full description of the Academic Appeals Process can be found at https://durhamcollege.ca/about/governance/policies/academic-policies .
6. Faculty are committed to ensuring accessible learning for all students. Students who would like assistance with academic access and accommodations in accordance with the Ontario Human Rights Code should register with the Access and Support Centre (ASC). ASC is located in room SW116, Oshawa Campus and in room 180 at the Whitby Campus. Contact ASC at 905-721-3123 for more information.
7. Durham College is committed to the fundamental values of preserving academic integrity. Durham College and faculty members reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that by taking this course all assignments could be subject to submission either by themselves or by the faculty member for a review of textual similarity to Turnitin.com. Further information about Turnitin can be found on the Turnitin.com Web site.

Learning Plan

The Learning Plan is a planning guideline. Actual delivery of content may vary with circumstances.

Students will be notified in writing of changes that involve the addition or deletion of learning outcomes or evaluations, prior to changes being implemented, as specified in the Course Outline Policy and Procedure at Durham College.

Wk.	Hours: 1 Delivery: In Class
1	**Course Learning Outcomes** CLO2
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives Introduction to Carpentry, Dimensioning, Materials and Tools
	Intended Learning Activities Lecture
	Resources and References Handouts, powerpoint and teaching aids
	Evaluation Presentation: Presentation-Lecture
Wk.	**Hours:** 2 **Delivery:** Lab
1	**Course Learning Outcomes** CLO4, CLO5
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives Intro to Hand Tools (lay out, cutting and hammers) Shop Safety
	Intended Learning Activities Shop Safety Tool Identification Location DOS 1 - dimensioning
	Resources and References N/A
	Evaluation Lab Activity: Project in process.

Wk.	Hours: 1	Delivery: In Class
2	**Course Learning Outcomes** CLO2	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives Hand tools continued Intro to drawings (line types) Basic joinery	
	Intended Learning Activities DOS #1- Dimension project.	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Presentation: Presentation-Lecture	

Wk.	Hours: 2	Delivery: Lab
2	**Course Learning Outcomes** CLO2, CLO4, CLO5	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives Complete dimension project	
	Intended Learning Activities Shop safety DOS 1- Dimension Project	
	Resources and References Lab Demos	
	Evaluation Lab Activity: DOS 1 (dimension exercise with hand tools)	**Weighting** 10

Wk.	Hours: 1 Delivery: In Class
3	**Course Learning Outcomes** CLO1, CLO2
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives Safety (safe work practices) Hand tools continued. Intro to power tools.-Miter Saw
	Intended Learning Activities Hand-outs PowerPoint presentation.
	Resources and References Handouts, powerpoint and teaching aids
	Evaluation Presentation: Presentation-Lecture
Wk.	**Hours:** 2 **Delivery:** Lab
3	**Course Learning Outcomes** CLO2, CLO4, CLO5
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives Continue Hand tools Intro power tools -Miter saw. drills.
	Intended Learning Activities DOS 2 - Power-tool dimension project.
	Resources and References Demos,Handouts
	Evaluation Lab Activity: Project in process.

Wk.	Hours: 1 Delivery: In Class	
4	**Course Learning Outcomes** CLO1, CLO4, CLO5	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives Quiz 1- Hand Tools	
	Intended Learning Activities Quiz	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Quiz: Quiz 1 Construction Safety Practices (Hand tools)	**Weighting** 10
Wk.	**Hours:** 2 **Delivery:** Lab	
4	**Course Learning Outcomes** CLO4, CLO5	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives DOS 2- Power-tool dimension project. Safe work practices- Shop safety overview.	
	Intended Learning Activities DOS 2 - Power-tool dimension project.	
	Resources and References Demos	
	Evaluation Lab Activity: Project in process.	

Wk.	Hours: 1 Delivery: In Class	
5	**Course Learning Outcomes** CLO1, CLO2	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives Lecture - Power tools continued - intro to saws (Portable, Mitre, Table) Intro to DOS 3 - Framing Project	
	Intended Learning Activities Power tools	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Presentation: Presentation-Lecture	
Wk.	**Hours:** 2 **Delivery:** Lab	
5	**Course Learning Outcomes** CLO2, CLO4, CLO5	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives DOS 3- Layout project. Layout, Dimension, Plumb and level Safe work practices	
	Intended Learning Activities DOS 3- Layout project (wall or rafter)	
	Resources and References Demos	
	Evaluation Lab Activity: DOS 2 (joint frame with hand and power tools)	**Weighting** 10

Wk.	Hours: 1	Delivery: In Class
6	**Course Learning Outcomes** CLO2	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives Portable and stationary power tools. Review for week 7 power tool quiz.	
	Intended Learning Activities Safe and proper handling of portable and stationary power tools.	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Presentation: Presentation-Lecture	

Wk.	Hours: 2	Delivery: Lab
6	**Course Learning Outcomes** CLO2, CLO4, CLO5	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives DOS 3 - Layout project Continued.	
	Intended Learning Activities DOS 3 - Layout project (wall or rafter) Instructor demonstrations. Shop work.	
	Resources and References Demos	
	Evaluation Lab Activity: DOS 3 (layout project #1)	**Weighting** 10

Wk.	Hours: 1 Delivery: In Class	
7	**Course Learning Outcomes** CLO4, CLO5	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives Quiz (power tools)	
	Intended Learning Activities Quiz	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Quiz: Quiz 2 Construction Safety Practices (Power tools)	**Weighting** 10

Wk.	Hours: 2 Delivery: Lab
7	**Course Learning Outcomes** CLO1, CLO2, CLO4, CLO5
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives DOS 4-Framing Project.
	Intended Learning Activities Practice bevel and cuts with circular saw. Instructor demonstrations Lab work.
	Resources and References Demos
	Evaluation Lab Activity: Project in process.

Wk.	Hours: 1 Delivery: In Class
8	**Course Learning Outcomes** CLO2, CLO3
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives Hand out and discuss Assignment #1 Intro to construction industry, Intro to Plans, specifications and Codes
	Intended Learning Activities Plans, specifications and codes, Construction industry future outlook. PowerPoint. DC Connect.
	Resources and References O.B.C. OHSA Websites
	Evaluation Presentation: Presentation-Lecture

Wk.	Hours: 2 Delivery: Lab
8	**Course Learning Outcomes** CLO2, CLO4, CLO5
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives Table Saws Mitre Saws Continue DOS 4- Framing Project.
	Intended Learning Activities DOS 4-Framing Project.
	Resources and References Demos
	Evaluation Lab Activity: Project in process.

Wk.	Hours: 1 Delivery: In Class	
9	**Course Learning Outcomes** CLO1, CLO2	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives Plans, specs., codes (continued), Assignment #1 Cont. Deck Construction.	
	Intended Learning Activities Greater detail of table and mitre saw usage. PowerPoint presentation Hand-outs	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Presentation: Presentation-Lecture	

Wk.	Hours: 2 Delivery: Lab	
9	**Course Learning Outcomes** CLO1, CLO2, CLO4, CLO5	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives Complete DOS 4- Framing Project.	
	Intended Learning Activities Lab work Instructor demonstrations.	
	Resources and References Demos	
	Evaluation Lab Activity: DOS 4 (Framing project.)	**Weighting** 10

Wk.	Hours: 1 Delivery: In Class
10	**Course Learning Outcomes** CLO1, CLO2, CLO3
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives The construction industry (continued) Intro to building permits Finishing tools. Woodworking finishing techniques.
	Intended Learning Activities Building permits Pythagorean theorem PowerPoint.
	Resources and References Handouts, powerpoint and teaching aids
	Evaluation Presentation: Presentation-Lecture
Wk.	**Hours:** 2 **Delivery:** Lab
10	**Course Learning Outcomes** CLO1, CLO2, CLO4, CLO5
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives DOS 5- Take away project. Sanding tools Finishing techniques.
	Intended Learning Activities Instructor demonstration Guided lab activities
	Resources and References Demos
	Evaluation Lab Activity: Project in process.

Wk.	Hours: 1 Delivery: In Class	
11	**Course Learning Outcomes** CLO2, CLO3	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives Deck Construction Ontario Building Code Hand in Assignment #1	
	Intended Learning Activities Group discussion Ontario Building Code	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Case Study: Case Study Assignment. (Carpentry)	**Weighting** 10

Wk.	Hours: 2 Delivery: Lab
11	**Course Learning Outcomes** CLO1, CLO2, CLO4, CLO5
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives DOS 5- take away project
	Intended Learning Activities Instructor demonstration Guided lab activities.
	Resources and References Demos
	Evaluation Lab Activity: Project in process.

Wk.	Hours: 1 Delivery: In Class
12	**Course Learning Outcomes** CLO2, CLO3
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives Carpentry; a skilled trade lasts a lifetime Sustainability and the construction industry Deck Construction Cont'd.
	Intended Learning Activities Skilled trade lasts a lifetime Sustainability and the construction industry
	Resources and References Handouts, powerpoint and teaching aids
	Evaluation Presentation: Presentation-Lecture
Wk.	**Hours:** 2 **Delivery:** Lab
12	**Course Learning Outcomes** CLO1, CLO2, CLO4, CLO5
	Essential Employability Skills **Taught:** **Practiced:**
	Intended Learning Objectives DOS 5- Take away project.
	Intended Learning Activities Instructor demonstration.
	Resources and References Demos
	Evaluation Lab Activity: Project in process.

Wk.	Hours: 1 Delivery: In Class	
13	**Course Learning Outcomes** CLO1, CLO2, CLO3	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives Review for final test	
	Intended Learning Activities Review for final test PowerPoint. Guided classroom discussion.	
	Resources and References Handouts, powerpoint and teaching aids	
	Evaluation Presentation: Presentation-Lecture	
Wk.	**Hours:** 2 **Delivery:** Lab	
13	**Course Learning Outcomes** CLO1, CLO2, CLO4, CLO5	
	Essential Employability Skills **Taught:** **Practiced:**	
	Intended Learning Objectives Complete DOS 5- Take away project. Shop safety	
	Intended Learning Activities Completion of shop assignment.	
	Resources and References Demos	
	Evaluation Lab Activity: DOS 5 Take away project. (cutting board)	**Weighting** 10

Wk.	Hours: 1	Delivery: In Class
14	**Course Learning Outcomes** CLO1, CLO2, CLO3, CLO5	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives Final Test	
	Intended Learning Activities Test	
	Resources and References Final Test	
	Evaluation Test: Final Test	**Weighting** 15

Wk.	Hours: 2	Delivery: Lab
14	**Course Learning Outcomes** CLO4, CLO5	
	Essential Employability Skills **Taught:**	**Practiced:**
	Intended Learning Objectives Deconstruction and Clean-up	
	Intended Learning Activities Deconstruction and clean-up	
	Resources and References N/A	
	Evaluation Lab Activity: Demolition and shop clean up	**Weighting** 5