

## SchSkill Trd, Appr & Renew Tech

### Tools I (Hand Tools)

2019-2020 Academic Year

Program	Year	Semester
START-Building Construction Technician Diploma	1	1

<b>Course Code:</b> CCHT 1401	<b>Course Equiv. Code(s):</b> N/A
<b>Course Hours:</b> 42	<b>Course GPA Weighting:</b> 3
<b>Prerequisite:</b> N/A	
<b>Corequisite:</b> N/A	
<b>Laptop Course:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Delivery Mode(s):</b> In class <input checked="" type="checkbox"/> Online <input type="checkbox"/> Hybrid <input type="checkbox"/> Correspondence <input type="checkbox"/>	
<b>Authorized by (Dean or Director):</b> Rebecca Milburn	<b>Date:</b> June 2019

<b>Prepared by</b>		
<b>First Name</b>	<b>Last Name</b>	<b>Email</b>
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## Course Description:

Successful completion of this course will allow the Learner to select, safely use, and care for a wide variety of hand tools and non-powered equipment. Learners will have the opportunity to apply safe work habits and good housekeeping in a workshop setting.

## 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](mailto:PLAR@durhamcollege.ca) for details.

### PLAR Eligibility

Yes  No

### 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 select, use and maintain hand tools for boring, cutting, abrading, assembly, dismantling, measuring, squaring, marking and clamping of building materials.
- CLO2 establish safe and proper use of tools according to manufacturer's recommendations.
- CLO3 select and use materials, fasteners and connectors commonly used in the construction industry.
- CLO4 Interpret a simple sketch to accurately build a small wooden project in the allotted time.

### 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.
- EES 2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.
- 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.
- EES 6. Locate, select, organize, and document information using appropriate technology and information systems.
- 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.
- EES 9. Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.
- EES 10. Manage the use of time and other resources to complete projects.
- 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 1- Common hand tools	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES4, EES10, EES11	5
Graded project 1- measure and layout	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES4, EES7, EES10, EES11	5
Graded project 2- measure layout and cut accurately.	CLO1, CLO2, CLO3, CLO4	EES2, EES3, EES4, EES9, EES10	5
Mid term test	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES6, EES7, EES9, EES10	15
Graded project 3- Hand saw and chisel mortise project.	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES9, EES10, EES11	5
Graded project 4- Hand cut dove tail joints.	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES7, EES9, EES10	10
Graded project 5-Carpenters tote	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES7, EES10	15
Quiz 3-Hand planes and shaping tools.	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES7, EES9, EES10, EES11	5
Graded project 6- Hand planes and shaping tools.	CLO1, CLO2, CLO3	EES1, EES2, EES4, EES7, EES10	5
Quiz 4-gripping and clamping tools.	CLO1, CLO2, CLO3, CLO4	EES1, EES3, EES7, EES9, EES10	5
Assignment 7-Squares and truing devices.	CLO1, CLO2, CLO3, CLO4	EES1, EES9, EES10	5
Final Test	CLO1, CLO2, CLO3, CLO4	EES1, EES2, EES3, EES4, EES6, EES7, EES10, EES11	20
<b>Total</b>			<b>100%</b>

### Notes:

- 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 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.
- 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.
- 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.
- A detailed rubric outlining expectations and evaluation criteria will be distributed for all assignments. Some assignments involve partners. Failure to work collaboratively within a group the student will result in a mark of zero(0) for this assignment.

5. 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 given a mark of zero (0). Marks may be deducted for lateness at the discretion of the professor. (20% per day and will not be accepted after the 3rd day)
6. Attendance is mandatory in both shop and classroom evaluations. Workshop and lab projects cannot be completed outside of scheduled class time unless specifically approved by your professor.
7. Assignments not submitted in the allotted time may be 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. Carpentry 2nd Canadian Edition, Nelson Publishing, ISBN 13-978-0-17-650273-7
2. Student Workbook for use with Carpentry 2nd Canadian Edition, Nelson Publishing ISBN 13-978-0-17-664675-2
3. Proper Shop Attire: Green patch footwear and safety glasses, tape measure, carpentry pencil.

## **Recommended Resources (purchase is optional):**

1. Library, DC Connect

# 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 <a href="http://www.durhamcollege.ca/academicpolicies">http://www.durhamcollege.ca/academicpolicies</a>	+ classroom management can be found in the Program Guide (full time programs only) in MyCampus <a href="http://www.durhamcollege.ca/mycampus/">http://www.durhamcollege.ca/mycampus/</a>

## Course Specific Policies and Expectations:

1. Student conduct: Students are expected to conduct themselves in a professional manner while on campus and off campus. Students are expected to comply with the program's professional conduct, appearance, and safety expectations found in the Program Guide and to understand and comply with off-site policies and procedures. It is everyone's responsibility to have respect for their peers.
2. Cell phone use: Electronic communication devices will be turned off and not used in the classroom unless part of the objectives or learning activities of a course or lesson. Students who disrupt a class to the detriment of the other members of the class will be asked to leave.
3. Peer interaction and feedback: Students are expected to participate with their peers in active learning activities and demonstrations. These demonstrations provide students with opportunities for written/verbal feedback from their peers, instructor, and others on the application of learned course material.
4. Attendance: Students are expected to attend all lecture and practical sessions for this course. Failure to do so could result in serious gaps in knowledge that may result in safety breaches in the shop environment. If the professor feels that a student is not being "safe" in the shop, the professor will remove the student from the environment. It is the students responsibility to access DC Connect and keep up to date on assignments and content when absent from class.

## 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 <http://durhamcollege.ca/gradeappeal>.
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	<b>Course Learning Outcomes</b>				
	CLO1, CLO2, CLO3, CLO4				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		EES3, EES4, EES10, EES11	<b>Practiced:</b> EES3, EES4, EES10, EES11	
	<b>Intended Learning Objectives</b>				
	Students will be expected to learn the contents of the course outline and discuss learning outcomes and expectations. Students will learn to distinguish the various hand tools used in the construction industry.				
<b>Intended Learning Activities</b>					
Guided lecture, worksheets, reference sheets.					
<b>Resources and References</b>					
DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.					
<b>Evaluation</b>					
Wk.	Hours:	2	Delivery:	Shop	
1	<b>Course Learning Outcomes</b>				
	CLO1, CLO2, CLO3				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		<b>Practiced:</b>		
	<b>Intended Learning Objectives</b>				
	Students will learn to use the various measuring and marking tools and types of hand saws and blades commonly used in the construction industry.				
<b>Intended Learning Activities</b>					
Hands on shop work activity.					
<b>Resources and References</b>					
DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.					
<b>Evaluation</b>					



<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
2	<b>Course Learning Outcomes</b> CLO1, CLO2	
	<b>Essential Employability Skills</b>	
	<b>Taught:</b> EES1, EES3, EES4, EES10	<b>Practiced:</b> EES1, EES3, EES4, EES10
	<b>Intended Learning Objectives</b> Quiz 1- Common hand tools-Students will learn to identify and distinguish the various types of hand saws and blades commonly used in the construction industry.	
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets. Project rubric	
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric	
	<b>Evaluation</b> Quiz 1- Common hand tools.	<b>Weighting</b> 5
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
2	<b>Course Learning Outcomes</b> CLO1, CLO2	
	<b>Essential Employability Skills</b>	
	<b>Taught:</b> EES1, EES3, EES4, EES7, EES10, EES11	<b>Practiced:</b> EES1, EES3, EES4, EES7, EES10, EES11
	<b>Intended Learning Objectives</b> Graded project 1- measure and layout	
	<b>Intended Learning Activities</b> Hands on shop work activity	
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric	
	<b>Evaluation</b> Graded project 1- measure and layout	<b>Weighting</b> 5

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>	
3	<b>Course Learning Outcomes</b> CLO1, CLO2				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		EES4, EES7, EES10, EES11	<b>Practiced:</b>	
				EES4, EES7, EES10, EES11	
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish the various types of hammers used in the construction industry safely and effectively.				
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.				
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric				
<b>Evaluation</b>					
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>	
3	<b>Course Learning Outcomes</b> CLO1, CLO2, CLO3				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		EES2, EES4, EES10, EES11	<b>Practiced:</b>	
				EES2, EES4, EES10, EES11	
	<b>Intended Learning Objectives</b> Students will learn to use the various types of hammers used in the construction industry safely and for the best outcome.				
	<b>Intended Learning Activities</b> Hands on shop work activity.				
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric				
<b>Evaluation</b>					

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>	
4	<b>Course Learning Outcomes</b> CLO1, CLO2				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		EES1, EES4, EES7, EES11	<b>Practiced:</b> EES1, EES4, EES7, EES11	
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish the various types of chisels used in the construction industry.				
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.				
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric				
	<b>Evaluation</b> Quiz 2-hand saws				
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>	
4	<b>Course Learning Outcomes</b> CLO1, CLO2				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		EES1, EES3, EES6, EES7, EES9, EES10	<b>Practiced:</b> EES1, EES3, EES6, EES7, EES9, EES10	
	<b>Intended Learning Objectives</b> Graded project 2- measure layout and cut accurately.				
	<b>Intended Learning Activities</b> Hands on shop work activity.				
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.				
	<b>Evaluation</b> Graded project 2- measure layout and cut accurately.			<b>Weighting</b> 5	

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
5	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES1, EES4, EES7, EES9, EES11	<b>Practiced:</b>	EES1, EES4, EES7, EES9, EES11
	<b>Intended Learning Objectives</b> Students will learn to Identify and demonstrate the safe and proper use of chisels used in the construction industry safely.			
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric			
	<b>Evaluation</b>			
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
5	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES4, EES7, EES9, EES11	<b>Practiced:</b>	EES4, EES7, EES9, EES11
	<b>Intended Learning Objectives</b> Students will learn to use chisels commonly used in the construction industry safely and for the best outcome.			
	<b>Intended Learning Activities</b> Hands on shop work activity.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b>			

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
6	<b>Course Learning Outcomes</b> CLO1, CLO2, CLO3			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES1, EES2, EES3, EES4, EES10	<b>Practiced:</b>	EES1, EES2, EES3, EES4, EES10
	<b>Intended Learning Objectives</b> Mid Term Test			
	<b>Intended Learning Activities</b> Mid Term Test-weeks 1-6			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
<b>Evaluation</b> Mid Term Test			<b>Weighting</b> 15	
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
6	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES1, EES4, EES7, EES10	<b>Practiced:</b>	EES1, EES4, EES7, EES10
	<b>Intended Learning Objectives</b> Graded project 3- Hand saw and chisel mortise project.			
	<b>Intended Learning Activities</b> Hands on shop work activity.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
<b>Evaluation</b> Graded project 3- Hand saw and chisel mortise project.				

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
7	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES2, EES4, EES7, EES10, EES11	<b>Practiced:</b>	EES2, EES4, EES7, EES10, EES11
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish coping saws commonly used in the construction industry safely and effectively.			
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b>			
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
7	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES2, EES3, EES4, EES10	<b>Practiced:</b>	EES2, EES3, EES4, EES10
	<b>Intended Learning Objectives</b> Graded project 4- Hand cut dove tail joints. Students will learn to layout and cut dove tail joint using hand saw and chisel.			
	<b>Intended Learning Activities</b> Hands on shop work activity. Project rubric			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b>			

<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
8	<b>Course Learning Outcomes</b> CLO1, CLO2	
	<b>Essential Employability Skills</b>	
	<b>Taught:</b> EES1, EES4, EES7, EES10	<b>Practiced:</b> EES1, EES4, EES7, EES10
	<b>Intended Learning Objectives</b> Quiz 3-Hand planes and shaping tools.	
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.	
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.	
	<b>Evaluation</b> Quiz 3-Hand planes and shaping tools.	<b>Weighting</b> 5
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
8	<b>Course Learning Outcomes</b> CLO1, CLO2	
	<b>Essential Employability Skills</b>	
	<b>Taught:</b> EES2, EES4, EES7, EES10	<b>Practiced:</b> EES2, EES4, EES7, EES10
	<b>Intended Learning Objectives</b> Continued from previous week-Graded Project 4- Hand cut dove tail joints Students will learn to layout and cut dove tail joint using hand saw and chisel.	
	<b>Intended Learning Activities</b> Hands on shop work activity. Project rubric	
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric	
	<b>Evaluation</b> Graded project 4- Hand cut dove tail joints. Students will learn to layout and cut dove tail joint using hand saw and chisel.	

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
9	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES2, EES4, EES7, EES10, EES11	<b>Practiced:</b>	EES2, EES4, EES7, EES10, EES11
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish different pliers and gripping tools commonly used in the construction industry safely and effectively.			
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b>			
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
9	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES3, EES4, EES9, EES10, EES11	<b>Practiced:</b>	EES3, EES4, EES9, EES10, EES11
	<b>Intended Learning Objectives</b> Continued from previous week-Graded project 4- Hand cut dove tail joints Students will learn to layout and cut dove tail joint using hand saw and chisel.			
	<b>Intended Learning Activities</b> Hands on shop work activity. Project rubric			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b>	Graded project 4- Hand cut dove tail joints.		



<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
10	<b>Course Learning Outcomes</b> CLO1, CLO2, CLO3			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES1, EES2, EES4, EES10, EES11	<b>Practiced:</b>	EES1, EES2, EES4, EES10, EES11
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish different clamps and tools commonly used in the construction industry safely and effectively.			
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b>	Quiz 4-gripping and clamping tools.		<b>Weighting</b>
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
10	<b>Course Learning Outcomes</b> CLO1, CLO2, CLO3			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES2, EES4, EES9, EES11	<b>Practiced:</b>	EES2, EES4, EES9, EES11
	<b>Intended Learning Objectives</b> Students will learn to select and use different clamps and tools commonly used in the construction industry safely and for the best outcome.			
	<b>Intended Learning Activities</b> Hands on shop work activity.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b>	Assignment 5-gripping and clamping tools.		<b>Weighting</b>

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>	
11	<b>Course Learning Outcomes</b> CLO1, CLO2				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		EES2, EES4, EES9, EES11	<b>Practiced:</b> EES2, EES4, EES9, EES11	
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish different string, chalk lines and squaring devices commonly used in the construction industry safely and effectively.				
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.				
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric				
	<b>Evaluation</b>				
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>	
11	<b>Course Learning Outcomes</b> CLO1, CLO2				
	<b>Essential Employability Skills</b>				
	<b>Taught:</b>		EES2, EES4, EES7, EES11	<b>Practiced:</b> EES2, EES4, EES7, EES11	
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish different different string, chalk lines and squaring devices commonly used in the construction industry safely and for the best outcome.				
	<b>Intended Learning Activities</b> Graded hands on shop work activity. Project rubric				
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.				
	<b>Evaluation</b> Assignment 6-Squares and truing devices.			<b>Weighting</b> 5	

<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
12	<b>Course Learning Outcomes</b> CLO1, CLO2	
	<b>Essential Employability Skills</b>	
	<b>Taught:</b> EES2, EES4, EES9, EES10, EES11	<b>Practiced:</b> EES2, EES4, EES9, EES10, EES11
	<b>Intended Learning Objectives</b> Students will learn to select and use different different counter punches and counter sink tools commonly used in the construction industry safely and effectively.	
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.	
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric	
	<b>Evaluation</b> Assignment 7-Punches, countersinks.	
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
12	<b>Course Learning Outcomes</b> CLO1, CLO2	
	<b>Essential Employability Skills</b>	
	<b>Taught:</b> EES2, EES4, EES9, EES11	<b>Practiced:</b> EES2, EES4, EES9, EES11
	<b>Intended Learning Objectives</b> Students will learn to select and use different different counter punches and counter sink tools commonly used in the construction industry safely and for the best outcome.	
	<b>Intended Learning Activities</b> Hands on shop work activity. Project rubric	
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.	
	<b>Evaluation</b> Assignment 7-Punches, countersinks.	<b>Weighting</b> 5

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
13	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b> EES7, EES11		<b>Practiced:</b> EES7, EES11	
	<b>Intended Learning Objectives</b> Students will learn to identify and distinguish different different prying and nail pulling tools commonly used in the construction industry safely and for the best outcome.			
	<b>Intended Learning Activities</b> Guided lecture, worksheets, reference sheets.			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
<b>Evaluation</b> Quiz 6-Prying tools		<b>Weighting</b> 5		
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
13	<b>Course Learning Outcomes</b> CLO1, CLO2			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b> EES2, EES4, EES10, EES11		<b>Practiced:</b> EES2, EES4, EES10, EES11	
	<b>Intended Learning Objectives</b> Students will learn to select and use different different prying and nail pulling tools commonly used in the construction industry safely and effectively.			
	<b>Intended Learning Activities</b> graded hands on shop work activity. Project rubric			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric			
<b>Evaluation</b> Assignment 8- prying tools.		<b>Weighting</b> 5		

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
14	<b>Course Learning Outcomes</b> CLO1, CLO2, CLO3			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES1, EES2, EES3, EES4, EES7, EES9, EES10, EES11	<b>Practiced:</b>	EES1, EES2, EES3, EES4, EES7, EES9, EES10, EES11
	<b>Intended Learning Objectives</b> Final Test			
	<b>Intended Learning Activities</b> Final Test-weeks 7-14			
	<b>Resources and References</b> DC Connect, text book, AV presentation, worksheets, Written assignment/Rubric.			
	<b>Evaluation</b> Final Test			<b>Weighting</b> 20
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
14	<b>Course Learning Outcomes</b> CLO1, CLO2, CLO3, CLO4			
	<b>Essential Employability Skills</b>			
	<b>Taught:</b>	EES1, EES2, EES3, EES4, EES7, EES10, EES11	<b>Practiced:</b>	EES1, EES2, EES3, EES4, EES7, EES10, EES11
	<b>Intended Learning Objectives</b> Finish all projects for marking.			
	<b>Intended Learning Activities</b> Shop work project			
	<b>Resources and References</b> Written assignment instruction sheet/Rubric, drawing, DC Connect, text book,			
	<b>Evaluation</b>			