

# Faculty of STA (Skld Trds)

### **Wood Framed Construction**

#### 2023-24 Academic Year

Program Title	Ministry Title	Major	Year	Semester
STA-Carpentry and Renovation Technician		RENO	1	2
STA-Carpentry and Renovation Technician (Co-op)		RENC	1	2

Course Code:	RENO 1101	Course Equiv. Code(s):	CCRC 2401
Course Hours:	56	Course GPA Weighting:	4
Prerequisite:	n/a		
Corequisite:	n/a		
Laptop Course:	Yes No X		
Delivery Mode(s	): In class X Online	Hybrid Flo	exible HyFlex
Remote proctori	ng required Yes	No X	
Authorized by (	Dean or Director): Rebecca	a Milburn Date:	August 2023

Prepared by		
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# **Course Description:**

This course covers the fundamentals of wood framing structures and components integral to stick framed structures. Students will learn the basic building skills for new construction and almost every remodelling or addition project.

### **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 <a href="http://www.durhamcollege.ca/plar">http://www.durhamcollege.ca/plar</a>. Full-time and part-time students must adhere to all deadline dates. Please email: PLAR@durhamcollege.ca for details.

LAR Eligibility
Yes X No
LAR Assessment (if eligible):
Assignment
X Exam
X Portfolio
X Other
Demonstration of skill and/or a comprehensive written test.

# **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 Identify typical floor, wall and ceiling framing system components for a residential woodframed structure.
- CLO2 Differentiate between structural and nonstructural components in residential wood frame structures.
- CLO3 Assemble residential framing components including roof, wall and floor systems.
- CLO4 Layout stair framing components for a residential building.
- CLO5 Calculate building materials needed to frame a residential wood structure.
- CLO6 Apply the Occupational Health and Safety Act (OHSA) to work safely and in accordance with Workplace Safety Act requirements.
- CLO7 Use the Ontario Building Code (OBC) to locate building codes for residential woodframed structures.
- CLO8 Identify net zero requirements when framing a residential structure.

#### **Essential Employability Skill Outcomes (ESSO)**

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

- X 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.
- X EES 3. Execute mathematical operations accurately.
- X EES 4. Apply a systematic approach to solve problems.
- X 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.
- 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
Lab Activity: Project 1- Floor framing layout and assembly	CLO1, CLO3, CLO5	EES1, EES4, EES10	10
Presentation: presentation - lecture	CLO1, CLO2, CLO7	EES1, EES10	0
Quiz: Quiz 1- Floor framing.	CLO1, CLO2, CLO6	EES3, EES4, EES5, EES6, EES10	10
Lab Activity: Project 2- Wall framing.	CLO1, CLO2, CLO3, CLO4, CLO5, CLO8	EES3, EES4, EES11	10
Lab Activity: Project 3- Bridging, blocking and bracing	CLO1, CLO3, CLO4, CLO5	EES1, EES3, EES6, EES10	5
Lab Activity: Project 4- Basic stair building.	CLO1, CLO2, CLO3, CLO4, CLO5, CLO7	EES1, EES3, EES5, EES6, EES10, EES11	10
Test: Midterm Test	CLO1, CLO2, CLO3, CLO4, CLO5	EES1, EES4, EES5, EES10, EES11	15
Lab Activity: Project 5- Common rafter layout.	CLO3, CLO4, CLO5	EES3, EES6, EES10	10
Lab Activity: Project #6- Roofing project.	CLO4, CLO5, CLO8	EES9, EES10, EES11	15
Test: Final Test	CLO1, CLO2, CLO3, CLO4, CLO5	EES1, EES3, EES4, EES5, EES6, EES10	15
Total			100%

#### Notes:

- 1. 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 earbuds allowed (unless discussed with Professor).
- 2. 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 an appropriate doctor's note to validate the absence. Opportunity to write a test later than the scheduled date is at the discretion of the professor.
- 3. 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.
- 4. 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.
- 5. Attendance is mandatory in both shop and classroom evaluations. Workshop and lab projects cannot be completed outside the scheduled times or off-site. Should the occasion arise when you cannot attend class you are responsible to contact your professor and make arrangements for missed work or assignments.

# Required Text(s) and Supplies:

- 1. Carpentry 4th Canadian Edition, Floyd Vogt, Michael Nauth, ISBN-10: 0176884920
- 2. Safety glasses and green patch safety footwear.

# Recommended Resources (purchase is optional):

- 1. Canadian Wood Frame House Construction, CMHC
- 2. Renovator's Technical Guide, ISBN 0-660-17439, CMHC

# Policies and Expectations for the Learning Environment:

#### **General Policies and Expectations:**

#### General College policies related to

- Acceptable Use of Information Technology
- + Academic Policies
- + Academic Integrity
- + Standards for Student Conduct for all Learning Environments can be found at https://durhamcollege.ca/wp-content/uploads/Standards-of-Student-Conduct-for-all-Learning-Environments.pdf
- Information about academic policies and procedures can be found on-line at https://durhamcollege.ca/about/governance/policies

#### General policies related to

- attendance
- absence related to tests or assignment due dates
- + excused absences
- + writing tests and assignments
- classroom management can be found in the Program Guide (full time programs only) in MyDC https://durhamcollege.ca/mydc/

All students at Durham College have the responsibility to familiarize themselves with and abide by the college's Academic Integrity Policy. Students are expected to complete and submit their own work in an honest manner, in accordance with the policy. Durham College has zero tolerance for breaches of academic integrity. All suspected breaches of academic integrity will be investigated and documented following procedures outlined in the policy, and should a breach be confirmed, appropriate penalties will be levied. Breaches of academic integrity refer to a variety of practices including, but not limited to:

- copying another person's work;
- using unauthorized materials or resources during an evaluation;
- obtaining unauthorized copies of evaluations in advance;
- · collaborating without permission;
- colluding or providing unauthorized assistance;
- falsifying academic documents or records;
- misrepresenting academic credentials;
- buying, selling, stealing, soliciting, exchanging or transacting materials or information for the purpose of academic gain;
- bribing or attempting to bribe personnel;
- impersonation;
- submitting the same work in more than one course without authorization;
- improper use of computer technology and the internet;
- depriving others of academic resources;
- misrepresenting reasons for special consideration of academic work;
- plagiarizing or failing to acknowledge ideas, data, graphics or other content without proper and full acknowledgement;
- any unauthorized use of generative or other artificial intelligence.

If you have questions or concerns about what constitutes appropriate academic conduct or research and citation methods, and what your responsibilities are towards academic integrity, please visit the Academic Integrity website on MyDC, reach out to Student Academic Learning Services (SALS), or speak with your professor or Student Advisor.

#### **Course Specific Policies and Expectations:**

- 1. No food or drink is allowed in the shop area at any time.
- 2. 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.
- 3. 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.
- 4. 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
- 5. No student will enter the shop/class with a cell phone, or any other electronic device. No earbuds that are connected to a music player with the exception of approved hearing protection.
- 6. To help avoid accidental damage to cell phones in the shop the use of a calculator is recommended.
- 7. 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.
- 8. Students are expected to utilize DC Connect regularly for homework assignments, course announcements, and to other relevant information.
- 9. In the event of a campus closure during which time classes cannot be conducted or attended in person, course delivery will be conducted online 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.

### **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.)
- 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.

Week/ Module	Hours:		1	Delivery:	In Class				
1	Course Learning Outcomes								
	CLO2								
	Essential En	nployability S	kills						
	Taught:	EES9, EES	10, EES1 <sup>-</sup>	1	Practiced:				
	Intended Lea	arning Object	ives/Topi	cs					
	Review and explain course outline -Overview of wood frame components -Explain course expectations and assignments -Explain grading protocol and rubrics - DC Connect orientation								
	Intended Lea	arning Activiti	ies						
	Powerpoint								
	Lecture DC Connec	et link							
	Resources a	and Reference	es						
	N/A								
	Evaluation Presentation: presentation - lecture								
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Week/ Module	Hours:	3	Delivery:	Shop			
1	Course Learning Outo	omes					
	CLO3, CLO4, CLO5, 0	CLO6					
	Essential Employabili	ty Skills					
	Taught:			Practiced:	EES4, EES9, EES10, EES11		
	Intended Learning Ob	jectives/Topi	cs				
	Floor framing basics a Net zero construction	ind the Ontari	o Building Co	ode.			
	Intended Learning Ac	tivities					
	Hands on shop work Instructor demonstrati	on					
	Resources and Refere	ences					
	N/A						
	<b>Evaluation</b> Lab Activity: Project 1	- Floor framin	g layout and a	assembly			
Week/ Module	Hours:	1	Delivery:	In Class			
2	Course Learning Outo	omes					
	CLO1, CLO2, CLO4, 0	CLO6					
	Essential Employabili	ty Skills					
	Taught: EES4, E	EES6		Practiced:			
	Intended Learning Ob	jectives/Topi	cs				
	Intro to OBC Part 9 Overview and descrip Floor bridging and fra	tion of Project ming	1				
	Intended Learning Activities						
	Powerpoint Lecture DC Connect link Handouts						
	Resources and References						
	N/A						
	<b>Evaluation</b> Presentation: present	ation - lecture					

Week/ Module	Hours:		3	Delivery:	Shop			
2	Course Learn	ing Outcome	s					
_	CLO4, CLO5	, CLO6						
	Essential Em	ployability Sk	ills					
	Taught:				Practiced:	EES3, EES5, EES6, EES11		
	Intended Lea	ning Objecti	ves/Topic	cs				
	Layout floor to	raming. to framing layo	out.					
	Intended Lea	ning Activitie	es					
	Hands on shop work exercise. Visual aids							
	Resources ar	d References	S					
	N/A							
	Evaluation Lab Activity:	Project 1- Floo	or framing	layout and	assembly			
Week/ Module	Hours:		1	Delivery:	In Class			
3	Course Learn	ing Outcome	s					
	CLO1, CLO3	, CLO5						
	Essential Em	ployability Sk	tills					
	Taught:	EES4, EES6	, EES10		Practiced:			
	Intended Learning Objectives/Topics							
	Floor framing	basics and th	ne OBC					
	Intended Lea	ning Activitie	es					
	Powerpoint Lecture DC Connect Handouts	link						
	Resources and References							
	N/A							
	<b>Evaluation</b> Presentation	Evaluation Presentation: presentation - lecture						

Week/ Module	Hours:	3	Delivery:	Shop				
3	Course Learning Outo	omes						
	CLO1, CLO2, CLO3, 0	CLO4, CLO6						
	Essential Employabili	ty Skills						
	Taught:			Practiced:	EES3, EES4, EES10			
	Intended Learning Ob	jectives/Topi	cs					
	Project 1 Floor framing layout a	nd assembly						
	Intended Learning Act	tivities						
	Hands on shop work Instructor demonstrati	on.						
	Resources and Refere	ences						
	N/A							
	Evaluation Lab Activity: Project 1	- Floor framin	g layout and	assembly				
Week/ Module	Hours:	1	Delivery:	In Class				
4	Course Learning Outo	omes						
	CLO1, CLO2, CLO3							
	Essential Employability Skills							
	Taught:			Practiced:				
	Intended Learning Objectives/Topics							
	Quiz #1							
	Intended Learning Activities							
	Powerpoint Lecture DC Connect link Handouts							
	Resources and References							
	N/A							
	<b>Evaluation</b> Quiz: Quiz 1- Floor fra	ıming.			<b>Weighting</b> 10			

Week/ Module	Hours:	3	Delivery:	Shop				
4	Course Lear	ning Outcomes						
	CLO1, CLO	3, CLO5						
	Essential Em	ployability Skills						
	Taught:	EES3, EES4, EE EES11	S9, EES10,	Practiced:				
	Intended Lea	rning Objectives	Topics					
	Complete P	roject 1. Floor fram	ing					
	Intended Lea	rning Activities						
	Hands on sh	nop work						
	Resources a	nd References						
	N/A							
	Evaluation Lab Activity:	Project 1- Floor fr	aming layout and	assembly	<b>Weighting</b> 10			
Week/ Module	Hours:	1	Delivery:	In Class				
5	Course Lear	ning Outcomes						
	CLO1, CLO2	2, CLO5, CLO8						
	Essential Em	ployability Skills						
	Taught:	EES3, EES4, EE	S5, EES6	Practiced:				
	Intended Lea	rning Objectives	Topics					
	Introduction Green buildi	to wall framing. Oling technologies.	3C.					
	Intended Lea	rning Activities						
	Powerpoint Lecture DC Connect Handouts	t link						
	Resources and References							
	N/A							
	<b>Evaluation</b> Presentation	n: presentation - le	cture					

Week/ Module	Hours:	3	Delivery:	Shop			
5	Course Learn	ing Outcomes					
	CLO1, CLO2	, CLO3, CLO4					
	Essential Em	ployability Skills					
	Taught:	EES4, EES5, EES	66	Practiced:			
	Intended Lea	rning Objectives/T	opics				
	Project 2-Wa	all framing					
	Intended Lea	rning Activities					
	Hands on sh Visual aids	op work					
	Resources ar	nd References					
	N/A						
	<b>Evaluation</b> Lab Activity:	Project 2- Wall fran	ning.				
Week/ Module	Hours:	1	Delivery:	In Class			
6	Course Learn	ing Outcomes					
	CLO1, CLO2	, CLO6, CLO8, CLO	09				
	Essential Employability Skills						
	Taught:	EES1, EES3, EES EES10	34, EES6,	Practiced:			
	Intended Learning Objectives/Topics						
	Review for midterm test						
	Intended Learning Activities						
	Review of weeks 1-6						
	Resources and References						
	N/A						
	Evaluation Presentation: presentation - lecture						

Week/ Module	Hours:		3	Delivery:	Shop			
6	Course Lea	rning Outcome	es					
	CLO1, CLC	03, CLO6, CLO	3					
	Essential E	mployability S	kills					
	Taught:				Practiced:	EES3, EES6, EES10, EES11		
	Intended Le	arning Objecti	ves/Topic	s				
	Complete F	Project #2						
		Intended Learning Activities						
		Hands on shop work Grade project #2						
	Resources and References							
	N/A							
	Evaluation	" Drainat 2 Wa	II francis a			Weighting		
	Lab Activity	y: Project 2- Wa	ılı tramıng.			10		
Week/ Module	Hours:		1	Delivery:	In Class			
7	Course Lea	rning Outcome	es					
	CLO1, CLC	02, CLO4, CLO	3					
	Essential E	mployability S	kills					
	Taught:	EES3, EES4	l, EES6		Practiced:			
	Intended Le	arning Objecti	ves/Topic	s				
	Mid term T	est						
	Intended Le	arning Activiti	es					
	Testing on	weeks 1-6						
	Resources	and Reference	S					
	N/A							
	Evaluation Test: Midte	erm Test				<b>Weighting</b> 15		

Week/ Module	Hours:	3	Delivery:	Shop					
7	Course Learning Outcomes								
	CLO1, CLO2, CLO5, CLO8								
	Essential Employability Skills								
	Taught:			Practiced:	EES1, EES3, EES9, EES10, EES11				
	Intended Learning Objectives/Topics								
	Project 3- Introduce E	Bridging, blocki	ing and braci	ng					
	Intended Learning Ad	ctivities							
	Hands on shop work Instructor demonstration.								
	Resources and Refer	ences							
	N/A								
	Evaluation Lab Activity: Project 3-Bridging, blocking and bracing								
Week/ Module	Hours:	1	Delivery:	In Class					
8	Course Learning Outcomes								
	CLO1, CLO2, CLO5, CLO8, CLO9								
	Essential Employability Skills								
	Taught:			Practiced:					
	Intended Learning Objectives/Topics								
	Interior structural walls, columns, post and beams.								
	Intended Learning Activities								
	Powerpoint Lecture DC Connect link Handouts								
	Resources and References								
	N/A								
	<b>Evaluation</b> Presentation: present	tation - lecture							

Week/ Module	Hours:	3	Deliv	ery:	Shop				
8	Course Learning Outcomes								
	CLO1, CLO2, CLO3, CLO6, CLO8								
	Essential Employability Skills								
	Taught:				Practiced:	EES1, EES3, EES4, EES5, EES6, EES9, EES10, EES11			
	Intended Lea	rning Objective	s/Topics						
	Project 3- Br	idging, blocking	and bracing						
	Intended Lea	rning Activities	<b>;</b>						
	Hands on sh Visual aid.	op work							
	Resources ar	nd References							
	N/A								
	Evaluation Lab Activity: Project 3-Bridging, blocking and bracing					<b>Weighting</b> 5			
Week/ Module	Hours:	1	Deliv	ery:	In Class				
9	Course Learn	Course Learning Outcomes							
	CLO1, CLO2	2, CLO3, CLO5,	CLO8, CLO9						
	Essential Em	Essential Employability Skills							
	Taught:	EES1, EES3, EES11	EES4, EES5,		Practiced:				
	Intended Learning Objectives/Topics								
	Introduction to Project 4- Basic stair building. Ontario Building Code								
	Intended Learning Activities								
	PowerPoint Guided discussion. DC Connect link Handouts								
	Resources ar	nd References							
	N/A								
	<b>Evaluation</b> Presentation	Evaluation Presentation: presentation - lecture							

Week/ Module	Hours:	3	Delivery:	Shop					
9	Course Learning Outcomes								
	CLO1, CLO2, CLO3, CLO4, CLO6, CLO7, CLO8								
	Essential Employability Skills								
	Taught:			Practiced:	EES1, EES3, EES5, EES9, EES10, EES11				
	Intended Learning Objectives/Topics								
	Project #4- Basic sta	ir building.							
	Intended Learning A	ctivities							
	Hands on shop work demonstration visual aids.								
	Resources and Refe	rences							
	N/A								
	Evaluation Lab Activity: Project 4- Basic stair building.								
Week/ Module	Hours:	1	Delivery:	In Class					
10	Course Learning Out	tcomes							
	CLO1, CLO2, CLO3, CLO6, CLO8								
	Essential Employability Skills								
	Taught: EES1, EES3, EES4, EES10 Practiced:								
	Intended Learning Objectives/Topics								
	Roof framing Calculating rafter length. Common rafter.								
	Intended Learning Activities								
	Powerpoint Lecture DC Connect link Handouts								
	Resources and Refe	Resources and References							
	N/A								
	Evaluation Presentation: presentation - lecture								

Week/ Module	Hours:	3	Delivery:	Shop					
10	Course Learning Outcomes								
	CLO1, CLO2, CLO3, CLO5, CLO8, CLO9								
	Essential Employability Skills								
	Taught:			Practiced:	EES1, EES3, EES5, EES10				
	Intended Learning O	bjectives/Topi							
	Complete Project #4 Basic stair building.								
	Intended Learning A	ctivities							
	Hands on shop work								
	Resources and Refe	rences							
	N/A								
	Evaluation	4. Danie stain b	ettattea ee		Weighting				
	Lab Activity: Project 4- Basic stair building. 10								
Week/ Module	Hours:	1	Delivery:	In Class					
11	Course Learning Outcomes								
	CLO1, CLO2, CLO3, CLO6, CLO8								
	Essential Employability Skills								
	Taught:			Practiced:					
	Intended Learning Objectives/Topics								
	Roof framing various Common rafter layor								
	Intended Learning Activities								
	Powerpoint Lecture DC Connect link Handouts								
	Resources and References								
	N/A								
	Evaluation Presentation: presentation - lecture								

Week/ Module	Hours:		3	Delivery:	Shop			
11	Course Learning Outcomes							
	CLO1, CLO2, CLO3, CLO6, CLO7, CLO8							
	Essential Em	ployability S	kills					
	Taught:				Practiced:	EES3, EES4, EES10, EES11		
	Intended Lea	rning Object	ives/Top	ics				
	Project #5- common rafter layout.							
	Intended Lea	rning Activit	ies					
	Hands on sh Instructor de	op work monstration.						
	Resources ar	nd Reference	es					
	N/A							
	Evaluation Lab Activity: Project 5-Common rafter layout.					<b>Weighting</b> 10		
Week/ Module	Hours:		1	Delivery:	In Class			
12	Course Learn	ning Outcom	es					
	CLO1, CLO2, CLO4, CLO6							
	Essential Employability Skills							
	Taught:	EES4, EES	5, EES9,	EES11	Practiced:			
	Intended Learning Objectives/Topics							
	Roof framing.Common rafter calculations.							
	Intended Learning Activities							
	Powerpoint Lecture DC Connect Handouts	link						
	Resources ar	nd Reference	es					
	N/A							
	<b>Evaluation</b> Presentation	: presentatior	ı - lecture					

Week/ Module	Hours:	3	Delivery:	Shop				
12	Course Learning Outcomes							
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7, CLO8, CLO9							
	Essential Employability Skills							
	Taught:			Practiced:	EES1, EES3, EES4, EES5, EES10, EES11			
	Intended Learning Objectives/Topics							
	Project #6- F	Roofing project						
	Intended Lea	rning Activities						
	Hands on sh Instructor de	Hands on shop work Instructor demonstration.						
	Resources a	nd References						
	N/A							
	Evaluation Lab Activity: Project #6-Roofing project.							
Week/ Module	Hours:	1	Delivery:	In Class				
13	Course Learning Outcomes							
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6							
_	Essential Employability Skills							
	Taught:	EES5, EES6, E	ES9	Practiced:				
	Intended Learning Objectives/Topics							
	Semester review							
	Intended Learning Activities							
	Powerpoint Lecture DC Connect link Handouts							
	Resources and References							
	N/A							
	<b>Evaluation</b> Presentation	n: presentation - le	ecture					

Week/ Module	Hours:	3	Delivery:	Shop					
13	Course Learning Outcomes								
	CLO3, CLO4, CLO6, CLO7, CLO8								
	Essential Employability Skills								
	Taught:			Practiced:	EES3, EES4, EES9, EES10, EES11				
	Intended Learning Objectives/Topics								
	Project 6 Roofing project.								
	Intended Learning A	ctivities							
	Hands on shop worl Group work.	<							
	Resources and Refe	Resources and References							
	N/A								
	Evaluation Lab Activity: Project #6-Roofing project.								
Week/ Module	Hours:	1	Delivery:	In Class					
	Hours: Course Learning Ou		Delivery:	In Class					
Module		tcomes							
Module	Course Learning Ou	tcomes , CLO5, CLO6							
Module	Course Learning Ou CLO1, CLO2, CLO3	tcomes , CLO5, CLO6							
Module	Course Learning Ou CLO1, CLO2, CLO3 Essential Employab	itcomes , CLO5, CLO6 ility Skills	, CLO7, CLO8	s, CLO9					
Module	Course Learning Ou CLO1, CLO2, CLO3 Essential Employab Taught:	itcomes , CLO5, CLO6 ility Skills	, CLO7, CLO8	s, CLO9					
Module	Course Learning Ou CLO1, CLO2, CLO3 Essential Employab Taught:	tcomes , CLO5, CLO6 ility Skills Objectives/Top	, CLO7, CLO8	s, CLO9					
Module	Course Learning Ou CLO1, CLO2, CLO3  Essential Employab  Taught:  Intended Learning C  Final Test	tcomes , CLO5, CLO6 ility Skills Objectives/Top	, CLO7, CLO8	s, CLO9					
Module	Course Learning Out CLO1, CLO2, CLO3  Essential Employab  Taught:  Intended Learning Out Final Test  Intended Learning A	tcomes , CLO5, CLO6 ility Skills Objectives/Top	, CLO7, CLO8	s, CLO9					
Module	Course Learning Ou CLO1, CLO2, CLO3 Essential Employab Taught: Intended Learning C Final Test Intended Learning A Final Test	tcomes , CLO5, CLO6 ility Skills Objectives/Top	, CLO7, CLO8	s, CLO9					
Module	Course Learning Ou CLO1, CLO2, CLO3 Essential Employab Taught: Intended Learning O Final Test Intended Learning A Final Test Resources and Reference	tcomes , CLO5, CLO6 ility Skills Objectives/Top	, CLO7, CLO8	s, CLO9	Weighting 15				

Hours:	3	Delivery:	Shop					
Course Learning Outcomes								
CLO1, CLO2, CLO3, CLO4, CLO5, CLO6								
Essential Employability Skills								
Taught:	EES1, EES3, EES4, EES5, EES9, EES10, EES11							
Intended Learning Objectives/Topics								
Project #6 Finish and submit final project for grading								
Intended Learning Activities								
Hands on shop work								
Resources and References								
N/A								
<b>Evaluation</b> Lab Activity: Project	ct #6-Roofing pro	ject.		<b>Weighting</b> 15				
	Course Learning O CLO1, CLO2, CLO Essential Employa Taught: Intended Learning Project #6 Finish and submit to Intended Learning Hands on shop woo Resources and Ref	Course Learning Outcomes CLO1, CLO2, CLO3, CLO4, CLO5, Essential Employability Skills Taught: Intended Learning Objectives/Topic Project #6 Finish and submit final project for grant Intended Learning Activities Hands on shop work  Resources and References N/A  Evaluation	Course Learning Outcomes CLO1, CLO2, CLO3, CLO4, CLO5, CLO6  Essential Employability Skills  Taught:  Intended Learning Objectives/Topics Project #6 Finish and submit final project for grading  Intended Learning Activities Hands on shop work  Resources and References N/A	Course Learning Outcomes CLO1, CLO2, CLO3, CLO4, CLO5, CLO6  Essential Employability Skills  Taught: Practiced:  Intended Learning Objectives/Topics Project #6 Finish and submit final project for grading  Intended Learning Activities Hands on shop work  Resources and References N/A  Evaluation				