Building Maintenance & Repair 1/2

San Diego County Office of Education - Sweetwater Union High School District Pacing Guide/Course Description

Course Length: 2 Semesters	Classroom Instruction: 180 hours
SUHSD Course Number: 97151	Grade Level: 9, 10, 11, 12
SDCOE Course Number: 550208	SDCOE Total Hours: 142 hours
CBEDS Number/Title: 5549/Other Building Trades and Construction	Year of Implementation: 2012
Course Pre-requisites: None	Articulation (school/credits): None
CTE Industry Sector: Building Trades and Construction	CTE Pathway(s): Residential and Commercial Construction
Ich Titles: Construction Worker, Electrician, Plumber, Painter (Corporter Electring installer Dry Well Installer Commercial Maintenance

Job Titles: General Construction Worker, Electrician, Plumber, Painter, Carpenter, Flooring installer, Dry Wall Installer, Commercial Maintenance Repairman

Credential Information: Preliminary or Clear Full-Time Designated Subjects CTE Teaching Credential in Building Trades and Construction

Required Textbooks: Residential Construction Academy Facilities Maintenance

Course Description: This course provides entry-level training in renovating and repairing residential and commercial buildings. Instruction includes safety, use of hand and power tools, building materials and exposure to trades related to building construction and repair. Instruction covers the following areas: Dry wall and exterior wall repair, painting, floor tile, basic plumbing and repair, basic electrical, basic understanding of heating and air conditioning, door repair/carpentry, basic appliance installation and light trouble shooting, concrete repair, basic understanding of telephone installation and repair of phone jacks, single, double and triple line-inside-wiring. Students use equipment which includes various hand and power tools. Employment possibilities include general construction worker, building maintenance worker, residential and commercial maintenance.

Semester 1

Unit 1: Introduction Unit 2: Safety Unit 3: Flooring Unit 4: Concrete Unit 5: Carpentry Unit 6: Plumbing

Semester 2

Unit 1: Electrical Unit 2: Finish Carpentry Unit 3: Drywall Unit 4: Painting Unit 5: Minor Repair Unit 6: Career Skills

Semester 1 - Unit 1 – Introduction (5 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
1A - The student identifies	Career Technical Education:	A - 1 hour	Teacher Resources:
standard shop procedures.	*BTC/RCCP/		Textbook – "Residential
1B - The student describes	D4.6 Understand customer service/relations	B - 1 hour	Construction Academy
equipment care procedures	as applied to project management and		Facilities Maintenance"
IC - The student discusses	wholesale and retail sales.	C - 1 hour	
organizational units of	Core Academic:		Student Resources:
esidential and commercial	*BTC/A/1.1M/NS/G7/	D - 1 hour	Textbook – "Residential
epair technicians.	(1.2) Add, subtract, multiply, and divide		Construction Academy
ID - The student discusses	rational numbers (integers, fractions, and	E – 30 minutes	Facilities Maintenance"
organizational units of	terminating decimals) and take positive		
residential and commercial	rational numbers to whole-number powers.	F – 30 minutes	Handouts
repair technicians.	*BTC/C/2.1R/RC/G11-12/		
IE – The student describes	(2.3) Verify and clarify facts presented in other		
advertising and public	types of expository texts by using a variety of		
elations.	consumer, workplace, and public documents		
IF – The student describes	*BTC/C/2.2W/WS/G9-10/		
advertising and public	(1.3) Use clear research questions and		
elations.	suitable research methods (e.g., library,		
	electronic media, personal interview) to elicit		
	and present evidence from primary and		
	secondary sources.		
	*BTC/C/2.3WO/ELC/G9-10/		
	(1.4) Produce legible work that shows		
	accurate spelling and correct use of the		
	conventions of punctuation and capitalization.		
	*BTC/C/2.4LS/LSSA/G8/		
	(1.5) Use precise language, action verbs,		
	sensory details, appropriate and colorful		
	modifiers, and the active rather than the		
	passive voice in ways that enliven oral		
	presentations.		
	(1.6) Use appropriate grammar, word choice,		
	enunciation, and pace during formal		
	presentations.		
	(1.7) Use audience feedback (e.g., verbal and		
	nonverbal cues):		
	a . Reconsider and modify the organizational		
	structure or plan.		

Building Maintenance & Repair 1/2

 b. Rearrange words and sentences to clarify the meaning. *BTC/C/2.4LS/LSSA/G9-10/ (1.7) Use props, visual aids, graphs, and electronic media to enhance the appeal and accuracy of presentations. 		
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Semester 1 - Unit 2 – Safety (15 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
2A - The student uses hand	Career Technical Education:	2A - 5 hours	Teacher Resources:
tools properly and effectively.	*BTC/HS/		Textbook – "Residential
2B - The student describes	6.1 Know the policies, procedures, and	2B - 3 hours	Construction Academy
safe practices in operating	regulations regarding health and safety in the		Facilities Maintenance"
power hand tools.	workplace, including employers' and	2C - 1 hour	
2C - The student	employees' responsibilities.		Student Resources:
demonstrates proper	6.2 Understand critical elements of health and	2D - 30 minutes	Textbook – "Residential
echniques in using electrical	safety practices related to storing, cleaning,		Construction Academy
testing equipment.	and maintaining tools, equipment, and	2E –2 hours	Facilities Maintenance"
2D - The student discusses	supplies.		
how to handle flammable	6.3 Know procedures for and regulations	2F – 30 minutes	Handouts
liquids safely.	concerning the handling, storage, and		
2E – The student describes	disposal of hazardous materials.	2G - 30 minutes	
proper use of power	*BTC/RCCP/		
machines and related	D1.1 Identify design solutions for residential	2H – 30 minutes	
equipment.	construction problems.		
2F – The student	D1.2 Calculate required materials for	2I – 30 minutes	
demonstrates safe use of	residential construction applications.	21 - 50 minutes	
adders.	D2.1 Use the common hand tools of the trade,	2J - 30 minutes	
2G - The student identifies	such as hammers, torches, pliers, wire	25 - 50 minutes	
asbestos found in residential		2K – 30 minutes	
	cutters, pipe cutters, saws, chisels (wood and	zr = 50 minutes	
and commercial buildings.	concrete), and wrenches, safely and properly		
2H – The student discusses	D2.2 Maintain and care for hand tools used in	2L – 30 minutes	
procedures for removal of	residential and commercial construction.		
asbestos.	D3.1 Use portable power tools, such as		
2I – The student describes	circular saws, table saws, saber saws, drills,		
City of San Diego Building	planers, and sanders, safely and properly.		
Safety and Health	D3.2 Use portable pneumatic tools, such as		
Administration Standards	rough framing nail guns, interior finishing and		
OSHA).	brad nail guns, hammers, impact wrenches,		
2J - The student has passed	drills, and compressors, safely and		
safety test with a score of	appropriately.		
30% or higher.	Core Academic:		
2K – The student recognizes	*BTC/C/2.3WO/ELC/G9-10/		
safe handling of lead paint	(1.4) Produce legible work that shows		
and hazards.	accurate spelling and correct use of the		
2L – The student	conventions of punctuation and capitalization		
understands the importance	*BTC/C/2.4LS/LSSA/G8/		

of Material Safety Data	(1.5) Use precise language, action verbs,	
Sheets (MSDS) and how to	sensory details, appropriate and colorful	
identify safety hazards related	modifiers, and the active rather than the	
to specific materials.	passive voice in ways that enliven oral	
	presentations.	
	(1.6) Use appropriate grammar, word choice,	
	enunciation, and pace during formal	
	presentations.	
	(1.7) Use audience feedback (e.g., verbal and	
	nonverbal cues):	
	a. Reconsider and modify the organizational	
	structure or plan.	
	b . Rearrange words and sentences to clarify	
	the meaning.	
	*BTC/C/2.4LS/LSSA/G9-10/	
	(1.7) Use props, visual aids, graphs, and	
	electronic media to enhance the appeal and	
	accuracy of presentations.	

	Semester 1 - Unit 3 – Flooring (10 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials	
3A - The student observes	Career Technical Education:	3A - 1 hour	Teacher Resources:	
safety instruction.	*BTC/PSCT/		Textbook – "Residential	
3B - The student repairs	5.1 Apply appropriate problem-solving	3B - 2 hours	Construction Academy	
plywood or subfloors. 3C - The student replaces or	strategies and critical thinking skills to work-	3C - 2 hours	Facilities Maintenance"	
repairs damaged linoleum	related issues and tasks. *BTC/RCCP/	3C - 2 hours	Student Resources:	
floors.	D1.1 Identify design solutions for residential	3D - 2 hours	Textbook – "Residential	
3D - The student repairs or	construction problems.		Construction Academy	
replaces worn or damaged	D1.2 Calculate required materials for	3E - 2 hours	Facilities Maintenance"	
carpet.	residential construction applications.			
3E - The student repairs or	D6.2 Understand the processes and materials	3F - 30 minutes	Handouts	
replaces broken floor tile.	(e.g., structural, electrical, mechanical, finish)			
3F - The student identifies	appropriate to the architectural design and	3G - 30 minutes		
various types of adhesives	residential construction			
and cements used in flooring.	Core Academic:			
3G - The student explains uses of metal or wooden trim.	*BTC/A/1.1M/GM/G8-12/			
uses of metal of wooden thm.	(8.0) Students know, derive, and solve			
	problems involving the perimeter,			
	circumference, area, volume, lateral area, and			
	surface.			
	(11.0) Students determine how changes in			
	dimensions affect the perimeter, area, and			
	volume of common geometric figures and solids.			
	(12.0) Students find and use measures of			
	sides and of interior and exterior angles of			
	triangles and polygons to classify figures and			
	solve problems.			
	(15.0) Students use the Pythagorean theorem			
	to determine distance and find missing lengths			
	of sides of right triangles.			
	*BTC/C/2.3WO/ELC/G9-10/			
	(1.4) Produce legible work that shows			
	accurate spelling and correct use of the			
	conventions of punctuation and capitalization			
	*BTC/C/2.4LS/LSSA/G8/			
	(1.5) Use precise language, action verbs,			

sensory details, appropriate and colorful modifiers, and the active rather than the passive voice in ways that enliven oral presentations. (1.6) Use appropriate grammar, word choice, enunciation, and pace during formal presentations. (1.7) Use audience feedback (e.g., verbal and nonverbal cues): a. Reconsider and modify the organizational structure or plan. b. Rearrange words and sentences to clarify the meaning. *BTC/C/2.4LS/LSSA/G9-10/ (1.7) Use props, visual aids, graphs, and electronic media to enhance the appeal and accuracy of presentations.

Semester 1 - Unit 4 – Concrete (10 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
4A - The student observes	Career Technical Education:	4A - 1 hour	Teacher Resources:
safety instruction.	*BTC/PSCT/		Textbook – "Residential
4B – The student	5.1 Apply appropriate problem-solving	4B - 1 hour	Construction Academy
demonstrates the use of	strategies and critical thinking skills to work-		Facilities Maintenance"
various digging tools.	related issues and tasks.	4C - 2 hours	
4C - The student	*BTC/RCCP/		Student Resources:
demonstrates ability to do	D1.1 Identify design solutions for residential	4D - 1 hour	Textbook – "Residential
form work.	construction problems.		Construction Academy
4D - The student lists correct	D1.2 Calculate required materials for	4E - 1 hour	Facilities Maintenance"
proportions of sand, cement,	residential construction applications.		
gravel, and water for various	D6.2 Understand the processes and materials	4F - 3 hours	Handouts
applications.	(e.g., structural, electrical, mechanical, finish)		
4E - The student describes	appropriate to the architectural design and	4G - 1 hour	
various types of trowels used	residential construction	4 6 - 1 11001	
in concrete work.	Core Academic:		
4F - The student pours a flat	*BTC/A/1.1M/MR/G7/		
concrete slab.	(2.1) Use estimation to verify the		
4G - The student pours	reasonableness of calculated results.		
	*BTC/A/1.1M/GM/G8-12/		
cement for postholes.			
	(15.0) Students apply algebraic techniques to		
	solve rate problems, work problems, and		
	percent mixture problems.		
	*BTC/A/1.1M/GM/G8-12/		
	(8.0) Students know, derive, and solve		
	problems involving the perimeter,		
	circumference, area, volume, lateral area, and		
	surface.		
	(11.0) Students determine how changes in		
	dimensions affect the perimeter, area, and		
	volume of common geometric figures and		
	solids.		
	(12.0) Students find and use measures of		
	sides and of interior and exterior angles of		
	triangles and polygons to classify figures and		
	solve problems.		
	(15.0) Students use the Pythagorean theorem		
	to determine distance and find missing lengths		
	of sides of right triangles.		

structure or plan. b . Rearrange words and sentences to clarify the meaning. * BTC/C/2.4LS/LSSA/G9-10/ (1.7) Use props, visual aids, graphs, and electronic media to enhance the appeal and	 *BTC/C/2.3WO/ELC/G9-10/ (1.4) Produce legible work that shows accurate spelling and correct use of the conventions of punctuation and capitalization *BTC/C/2.4LS/LSSA/G8/ (1.5) Use precise language, action verbs, sensory details, appropriate and colorful modifiers, and the active rather than the passive voice in ways that enliven oral presentations. (1.6) Use appropriate grammar, word choice, enunciation, and pace during formal presentations. (1.7) Use audience feedback (e.g., verbal and nonverbal cues): 	
accuracy of presentations.	 (1.6) Use appropriate grammar, word choice, enunciation, and pace during formal presentations. (1.7) Use audience feedback (e.g., verbal and nonverbal cues): a. Reconsider and modify the organizational structure or plan. b. Rearrange words and sentences to clarify the meaning. *BTC/C/2.4LS/LSSA/G9-10/ (1.7) Use props, visual aids, graphs, and 	

Semester 1 - Unit 5 – Carpentry (20 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
5A - The student observes	Career Technical Education:	5A - 2 hours	Teacher Resources:
safety instruction.	*BTC/PSCT/		Textbook – "Residential
5B - The student describes	5.1 Apply appropriate problem-solving	5B - 1 hour	Construction Academy
various types of nails	strategies and critical thinking skills to work-		Facilities Maintenance"
common to carpentry	related issues and tasks.	5C - 1 hour	
5C - The student uses a	*BTC/RCCP/		Student Resources:
raming hammer properly and	D1.1 Identify design solutions for residential	5D - 1 hour	Textbook – "Residential
effectively.	construction problems.		Construction Academy
5D - The student uses a	D1.2 Calculate required materials for	5E – 30 minutes	Facilities Maintenance"
power circular saw safely and	residential construction applications.		
properly.	D6.2 Understand the processes and	5F - 30 minutes	Handouts
5E - The student uses a	materials (e.g., structural, electrical,		
combination square.	mechanical, finish) appropriate to the	5G - 30 minutes	
5F - The student identifies	architectural design and residential		
various types and sizes of	construction	5H - 10 hours	
umber.	Core Academic:		
5G - The student describes	*BTC/A/1.1M/MR/G7/	5I - 2 hours	
various applications for	(2.1) Use estimation to verify the		
different types of lumber.	reasonableness of calculated results.	5J - 1 hour	
5H - The student frames a	*BTC/A/1.1M/GM/G8-12/		
wall.	(8.0) Students know, derive, and solve	5K - 30 minutes	
5I - The student describes the	problems involving the perimeter,		
process of framing a wall that	circumference, area, volume, lateral area,		
ncludes a window or door.	and surface.		
5J - The student explains the	(11.0) Students determine how changes in		
procedures of layout.	dimensions affect the perimeter, area, and		
5K - The student	volume of common geometric figures and		
differentiates between hip	solids.		
and gable roofs.	(12.0) Students find and use measures of		
	sides and of interior and exterior angles of		
	triangles and polygons to classify figures and		
	solve problems.		
	(15.0) Students use the Pythagorean		
	theorem to determine distance and find		
	missing lengths of sides of right triangles.		
	*BTC/A/1.4VAPA/VA/PR/G9-2/		
	(1.4) Analyze and describe how the		

according of a work of art is affected by the	
composition of a work of art is affected by the	
use of a particular principle of design.	
(1.5) Analyze the material used by a given	
artist and describe how its use influences the	
meaning of the work.	
*BTC/A/1.4VAPA/VA/ADV/G9-12/	
(2.1) Create original works of art of	
increasing complexity and skill in a variety of	
media that reflect their feelings and points of	
view.	
(2.2) Plan and create works of art that reflect	
complex ideas, such as distortion, color	
theory, arbitrary color, scale, expressive	
content, and real versus virtual	
*BTC/C/2.3WO/ELC/G9-10/	
(1.4) Produce legible work that shows	
accurate spelling and correct use of the	
conventions of punctuation and capitalization	
*BTC/C/2.4LS/LSSA/G8/	
(1.5) Use precise language, action verbs,	
sensory details, appropriate and colorful	
modifiers, and the active rather than the	
passive voice in ways that enliven oral	
presentations.	
(1.6) Use appropriate grammar, word choice,	
enunciation, and pace during formal	
presentations.	
(1.7) Use audience feedback (e.g., verbal	
and nonverbal cues):	
a . Reconsider and modify the organizational	
structure or plan.	
b . Rearrange words and sentences to clarify	
the meaning.	
*BTC/C/2.4LS/LSSA/G9-10/	
(1.7) Use props, visual aids, graphs, and	
electronic media to enhance the appeal and	
accuracy of presentations.	

Semester 1 - Unit 6 – Plumbing (30 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
6A - The student observes	Career Technical Education:	6A - 2 hours	Teacher Resources:
afety instruction.	*BTC/PSCT/		Textbook – "Residential
B - The student describes	5.1 Apply appropriate problem-solving	6B - 1 hour	Construction Academy
arious types of wrenches	strategies and critical thinking skills to work-		Facilities Maintenance"
sed in plumbing repair.	related issues and tasks.	6C - 1 hour	
C - The student uses cutting	*BTC/RCCP/		Student Resources:
nd threading tools.	D1.1 Identify design solutions for residential	6D - 2 hours	Textbook – "Residential
D - The student identifies	construction problems.		Construction Academy
arious types of pipe, such as	D1.2 Calculate required materials for	6E - 1 hour	Facilities Maintenance"
on, galvanized, copper and	residential construction applications.		
plastic.	D6.2 Understand the processes and materials	6F - 2 hours	Handouts
E - The student describes	(e.g., structural, electrical, mechanical, finish)		
pplications for various types	appropriate to the architectural design and	6G - 2 hours	
and sizes of pipe.	residential construction		
F - The student describes	Core Academic:	6H - 3 hours	
peration of various types of			
lumbing fixtures, such as	*BTC/A/1.1M/GM/G8-12/	6l - 4 hours	
inks, toilets,	(8.0) Students know, derive, and solve	01-4110015	
athtub/showers, sprinklers,	problems involving the perimeter,	6J - 6 hours	
	circumference, area, volume, lateral area, and	6 J - 6 Hours	
ind appliance hook-ups.	surface.		
G - The student describes	(11.0) Students determine how changes in	6K - 5 hours	
arious types of valves.	dimensions affect the perimeter, area, and		
H - The student describes	volume of common geometric figures and	6L - 1 hour	
epair and/or replacement	solids.		
rocedures for various types	(12.0) Students find and use measures of		
f valves.	sides and of interior and exterior angles of		
I - The student repairs	triangles and polygons to classify figures and		
arious plumbing problems,	solve problems.		
uch as leaking faucets,	(15.0) Students use the Pythagorean theorem		
locked sewer lines, blocked	to determine distance and find missing lengths		
pilets, leaking pipes and			
rains.	of sides of right triangles.		
J - The student replaces	*BTC/C/2.3WO/ELC/G9-10/		
aucets, shower heads,	(1.4) Produce legible work that shows		
pilets, sprinkler heads.	accurate spelling and correct use of the		
K - The student replaces	conventions of punctuation and capitalization		
aucets, shower heads,	*BTC/C/2.4LS/LSSA/G8/		
pilets, sprinkler heads.	(1.5) Use precise language, action verbs,		

6L - The student installs	sensory details, appropriate and colorful	
commercial high pressure	modifiers, and the active rather than the	
fixtures.	passive voice in ways that enliven oral	
	presentations.	
	(1.6) Use appropriate grammar, word choice,	
	enunciation, and pace during formal	
	presentations.	
	(1.7) Use audience feedback (e.g., verbal and	
	nonverbal cues):	
	a. Reconsider and modify the organizational	
	structure or plan.	
	b . Rearrange words and sentences to clarify	
	the meaning.	
	*BTC/C/2.4LS/LSSA/G9-10/	
	(1.7) Use props, visual aids, graphs, and	
	electronic media to enhance the appeal and	
	accuracy of presentations.	

Semester 2- Unit 1 – Electrical (20 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
7A - The student observes	Career Technical Education:	7A - 2 hours	Teacher Resources:
safety instruction.	*BTC/PSCT/		Textbook – "Residential
7B - The student uses	5.1 Apply appropriate problem-solving	7B - 1 hour	Construction Academy
various types of pliers used in	strategies and critical thinking skills to work-		Facilities Maintenance"
electrical repair properly.	related issues and tasks.	7C - 1 hour	
7C - The student uses	*BTC/RCCP/		Student Resources:
various types of cutting and	D1.1 Identify design solutions for residential	7D – 30 minutes	Textbook – "Residential
splicing tools properly.	construction problems.		Construction Academy
7D - The student describes	D1.2 Calculate required materials for	7E - 1 hour	Facilities Maintenance"
various types of electrical	residential construction applications.		
connectors.	D5.1 Understand the safe use of electrical	7F - 30 minutes	Handouts
7E - The student describes	connection methods and electrical wiring		
uses for various types of	procedures.	7G - 1 hour	
electrical receptacles.	D6.2 Understand the processes and materials		
7F - The student	(e.g., structural, electrical, mechanical, finish)	7H - 1 hour	
differentiates between	appropriate to the architectural design and		
metallic and non-metallic	residential construction	7I - 1 hour	
sheathed cables.	Core Academic:	/1- 1 Hou	
7G - The student describes	*BTC/A/1.1M/GM/G8-12/	7J - 1 hour	
the installation of various	(8.0) Students know, derive, and solve	75 - 1 11001	
types of light fixtures.	problems involving the perimeter,	7K - 4 hours	
7H - The student describes	circumference, area, volume, lateral area, and	78 - 4 110015	
		71 4 hours	
the function of main switches,	surface.	7L-4 hours	
circuit breaker, and fuses.	(11.0) Students determine how changes in	794 4 1 4 4	
7I - The student explains	dimensions affect the perimeter, area, and	7M - 1 hour	
national electrical code	volume of common geometric figures and		
specifications.	solids.	7N - 1 hour	
7J - The student discusses	(12.0) Students find and use measures of		
electrical troubleshooting	sides and of interior and exterior angles of		
techniques.	triangles and polygons to classify figures and		
7K - The student replaces	solve problems.		
wall receptacles and wall	(15.0) Students use the Pythagorean theorem		
switches.	to determine distance and find missing lengths		
7L - The student installs light	of sides of right triangles.		
fixtures.	*BTC/A/1.2S/PH/G9-12/		
7M - The student describes	(5.b) Students know how to solve problems		
procedures used in hard	involving Ohm's law.		
wiring appliances.			

7N – The student describes basic electrical symbols.	 *BTC/C/2.3WO/ELC/G9-10/ (1.4) Produce legible work that shows accurate spelling and correct use of the conventions of punctuation and capitalization *BTC/C/2.4LS/LSSA/G8/ (1.5) Use precise language, action verbs, sensory details, appropriate and colorful modifiers, and the active rather than the passive voice in ways that enliven oral presentations. (1.6) Use appropriate grammar, word choice, enunciation, and pace during formal presentations. (1.7) Use audience feedback (e.g., verbal and nonverbal cues): a. Reconsider and modify the organizational structure or plan. b. Rearrange words and sentences to clarify the meaning. *BTC/C/2.4LS/LSSA/G9-10/ (1.7) Use props, visual aids, graphs, and electronic media to enhance the appeal and accuracy of presentations. 		
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Semester 2 - Unit 2 – Finish Carpentry (15 hours)				
Competencies Standards Suggested Pacing	Resources/Materials			
	Resources/MaterialsTeacher Resources: Textbook – "Residential Construction Academy Facilities Maintenance"Student Resources: Textbook – "Residential Construction Academy Facilities Maintenance"Handouts			

 *BTC/C/2.3WO/ELC/G9-10/ (1.4) Produce legible work that shows accurate spelling and correct use of the conventions of punctuation and capitalization *BTC/C/2.4LS/LSSA/G8/ (1.5) Use precise language, action verbs, sensory details, appropriate and colorful modifiers, and the active rather than the passive voice in ways that enliven oral presentations. (1.6) Use appropriate grammar, word choice, enunciation, and pace during formal presentations. (1.7) Use audience feedback (e.g., verbal and nonverbal cues): a. Reconsider and modify the organizational structure or plan. b. Rearrange words and sentences to clarify the meaning. *BTC/C/2.4LS/LSSA/G9-10/ (1.7) Use props, visual aids, graphs, and electronic media to enhance the appeal and accuracy of presentations. 		
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Semester 2 - Unit 3 – Drywall (15 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
8A - The student observes	Career Technical Education:	8A - 1 hour	Teacher Resources:
safety instruction.	*BTC/PSCT/		Textbook – "Residential
8B - The student effectively	5.1 Apply appropriate problem-solving	8B - 30 minutes	Construction Academy
uses drywall saws and utility	strategies and critical thinking skills to work-		Facilities Maintenance"
knives.	related issues and tasks.	8C - 30 minutes	
8C - The student identifies	*BTC/RCCP/		Student Resources:
various type and sizes of	D1.1 Identify design solutions for residential	8D – 2 hours	Textbook – "Residential
drywall nails and screws.	construction problems.		Construction Academy
8D - The student types and	D1.2 Calculate required materials for	8E - 5 hours	Facilities Maintenance"
spackles drywall.	residential construction applications.		
8E - The student types and	D6.2 Understand the processes and materials	8F - 5 hours	Handouts
spackles drywall.	(e.g., structural, electrical, mechanical, finish)		
8F - The student hangs	appropriate to the architectural design and	8G - 1 hour	
drywall, using nail patterns	residential construction		
according to local codes.	Core Academic:		
8G - The student repairs	*BTC/A/1.1M/GM/G8-12/		
drywall holes.	(8.0) Students know, derive, and solve		
	problems involving the perimeter,		
	circumference, area, volume, lateral area, and		
	surface.		
	(11.0) Students determine how changes in		
	dimensions affect the perimeter, area, and		
	volume of common geometric figures and		
	solids.		
	(12.0) Students find and use measures of		
	sides and of interior and exterior angles of		
	triangles and polygons to classify figures and		
	solve problems.		
	(15.0) Students use the Pythagorean		
	theorem to determine distance and find		
	missing lengths of sides of right triangles.		
	*BTC/C/2.3WO/ELC/G9-10/		
	(1.4) Produce legible work that shows		
	accurate spelling and correct use of the		
	conventions of punctuation and capitalization		
	*BTC/C/2.4LS/LSSA/G8/		
	(1.5) Use precise language, action verbs,		
	sensory details, appropriate and colorful		

 modifiers, and the active rather than the passive voice in ways that enliven oral presentations. (1.6) Use appropriate grammar, word choice, enunciation, and pace during formal presentations. (1.7) Use audience feedback (e.g., verbal and nonverbal cues): a. Reconsider and modify the organizational structure or plan. b. Rearrange words and sentences to clarify the meaning. 	
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Semester 2 - Unit 4 – Painting (15 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
10A - The student observes	Career Technical Education:	10A - 1 hour	Teacher Resources:
safety instruction.	*BTC/PSCT/		Textbook – "Residential
10B - The student performs	5.1 Apply appropriate problem-solving	10B - 1 hour	Construction Academy
proper methods of finish	strategies and critical thinking skills to work-		Facilities Maintenance"
sanding.	related issues and tasks.	10C - 30 minutes	
10C - The student describes	*BTC/RCCP/		Student Resources:
uses for oil based paint.	D1.1 Identify design solutions for residential	10D – 30 minutes	Textbook – "Residential
10D - The student describes	construction problems.		Construction Academy
various types of electrical	D1.2 Calculate required materials for	10E - 30 minutes	Facilities Maintenance"
connectors.	residential construction applications.		
10E - The student describes	D6.2 Understand the processes and materials	10F - 2 hours	Handouts
uses for water based paint.	(e.g., structural, electrical, mechanical, finish)		
10F - The student performs	appropriate to the architectural design and	10G - 1 hour	
various methods of applying	residential construction		
paint.	Core Academic:	10H - 30 minutes	
10G - The student describes	*BTC/A/1.1M/GM/G8-12/		
staining techniques.	(8.0) Students know, derive, and solve	10I - 5 hours	
10H - The student accesses	problems involving the perimeter,		
situations where degreaser is	circumference, area, volume, lateral area, and	10J - 30 minutes	
necessary before refinishing	surface.		
and/or re-painting.	(11.0) Students determine how changes in	10K - 2 hours	
10I - The student uses	dimensions affect the perimeter, area, and		
brushes and rollers properly.	volume of common geometric figures and	10L - 30 minutes	
10J - The student explains	solids.		
the importance of safe	(12.0) Students find and use measures of		
storage of flammable	sides and of interior and exterior angles of		
materials.	triangles and polygons to classify figures and		
10K - The student uses an	solve problems.		
airless type spray gun	(15.0) Students use the Pythagorean theorem		
properly.	to determine distance and find missing lengths		
10L - The student estimates	of sides of right triangles.		
amount of paint needed for a	*BTC/C/2.3WO/ELC/G9-10/		
ob.	(1.4) Produce legible work that shows		
JUD.	accurate spelling and correct use of the		
	conventions of punctuation and capitalization		
	*BTC/C/2.4LS/LSSA/G8/		
	(1.5) Use precise language, action verbs,		
	sensory details, appropriate and colorful		

 modifiers, and the active rather than the passive voice in ways that enliven oral presentations. (1.6) Use appropriate grammar, word choice, enunciation, and pace during formal presentations. (1.7) Use audience feedback (e.g., verbal and nonverbal cues): a. Reconsider and modify the organizational structure or plan. b. Rearrange words and sentences to clarify the meaning. *BTC/C/2.4LS/LSSA/G9-10/ (1.7) Use props, visual aids, graphs, and electronic media to enhance the appeal and accuracy of presentations. 	

<u>Semester 2</u> - Unit 5 – Minor Repair (15 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
11A - The student observes	Career Technical Education:	11A - 1 hour	Teacher Resources:
safety instruction.	*BTC/PSCT/		Textbook – "Residential
11B - The student repairs	5.1 Apply appropriate problem-solving	11B - 3 hours	Construction Academy
broken window and door	strategies and critical thinking skills to work-		Facilities Maintenance"
screens.	related issues and tasks.	11C - 3 hours	
11C - The student replaces	*BTC/TKS/		Student Resources:
broken window panes.	10.2 Maintain and troubleshoot equipment	11D – 2 hours	Textbook – "Residential
11D - The student installs	used in the construction industry.		Construction Academy
door locksets.	10.3 Use, store, and allocate materials	11E - 5 hours	Facilities Maintenance"
11E - The student discusses	efficiently, and use space efficiently		
various procedures used in	*BTC/RCCP/	11F – 30 minutes	Handouts
refinishing furniture.	D1.1 Identify design solutions for residential		
11F - The student chooses	construction problems.	11G – 30 minutes	
proper wall fasteners for	D1.2 Calculate required materials for		
various materials.	residential construction applications.		
11G - The student explains	D6.2 Understand the processes and materials		
how to hang a garage door.	(e.g., structural, electrical, mechanical, finish)		
now to hang a galage door.	appropriate to the architectural design and		
	residential construction		
	Core Academic:		
	*BTC/A/1.1M/GM/G8-12/		
	(8.0) Students know, derive, and solve		
	problems involving the perimeter,		
	circumference, area, volume, lateral area, and		
	surface.		
	(11.0) Students determine how changes in		
	dimensions affect the perimeter, area, and		
	volume of common geometric figures and		
	solids.		
	(12.0) Students find and use measures of		
	sides and of interior and exterior angles of		
	triangles and polygons to classify figures and		
	solve problems.		
	(15.0) Students use the Pythagorean theorem		
	to determine distance and find missing lengths		
	of sides of right triangles.		
	*BTC/C/2.3WO/ELC/G9-10/		
	(1.4) Produce legible work that shows		

accurate spelling and correct use of the	
conventions of punctuation and capitalization	
*BTC/C/2.4LS/LSSA/G8/	
(1.5) Use precise language, action verbs,	
sensory details, appropriate and colorful	
modifiers, and the active rather than the	
passive voice in ways that enliven oral	
presentations.	
(1.6) Use appropriate grammar, word choice,	
enunciation, and pace during formal	
presentations.	
(1.7) Use audience feedback (e.g., verbal and	
nonverbal cues):	
a. Reconsider and modify the organizational	
structure or plan.	
b . Rearrange words and sentences to clarify	
the meaning.	
*BTC/C/2.4LS/LSSA/G9-10/	
(1.7) Use props, visual aids, graphs, and	
electronic media to enhance the appeal and	
accuracy of presentations.	

Semester 2 - Unit 6 – Career Skills (10 hours)			
Competencies	Standards	Suggested Pacing	Resources/Materials
1A - Accesses and utilizes	Career Technical Education:	1A-2K - ongoing	Teacher Resources:
technology and information.	*BTC/CPM/		Job Finder's Guide
1B - Practices occupational	3.1 Know the personal qualifications,	3A – 4 hours	
safety standards.	interests, aptitudes, knowledge, and skills		Student Resources:
1C - Thinks critically and	necessary to succeed in careers.	3B – 2 hours	Job Finder's Guide
solving problems effectively.	3.4 Understand the role and function of		
1D - Uses basic skills in	professional organizations, industry	3C – 2 hours	
reading, writing, mathematics,	associations, and organized labor in a		
listening and speaking as	productive society.		
they relate to occupation	3.6 Know important strategies for self-		
specific skills.	promotion in the hiring process, such as job		
1E - Attains a comprehensive	applications, résumé writing, interviewing		
understanding of all aspects	skills, and preparation of a portfolio.		
of industry the individual is	*BTC/TKS/		
preparing to enter.	10.1 Understand construction processes and		
1F - Applies knowledge to	systems and their importance in construction		
real world problems and	technology.		
situations.	Core Academic:		
student:	*BTC/C/2.2W/WSA/G11-12/		
2A - Works independently	(2.5) Write job applications and résumés:		
and collaboratively.	a . Provide clear and purposeful information		
2B - Communicates	and address the intended audience		
effectively and appropriately.	appropriately.		
2C - Performs reliably and	b . Use varied levels, patterns, and types of		
responsibly.	language to achieve intended effects and aid		
2D - Works with diverse	comprehension.		
populations effectively and	c . Modify the tone to fit the purpose and		
respectfully.	audience.		
2E - Is punctual.	d . Follow the conventional style for that type		
2F - Follows directions.	of document (e.g., résumé, memorandum)		
2G - Works well with	and use page formats, fonts, and spacing that		
minimum supervision.	contribute to the readability and impact of the		
2H Is cooperative.	document.		
2I -Takes initiative by working	*BTC/C/2.2W/WS/G9-10/		
beyond minimum	(1.3) Use clear research questions and		
requirements.	suitable research methods (e.g., library,		
2J - Meets job standards of	electronic media, personal interview) to elicit		
neatness and grooming.	and present evidence from primary and		

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2K- Responds appropriately to constructive criticism.secondary sources. 3A- Completes an appropriate resume and job application.secondary sources. 3B - Attaining awareness of advanced career and educational opportunities.secondary sources. 3C - Acquires job interview techniques.secondary sources.		
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