

# School District of Marshfield Course Syllabus

**Course Name: Home Maintenance** 

**Length of Course: 1 Semester** 

Credit: .5

#### **Program Goal(s):**

Empower learners to be college and career ready through standards-based experiences in the classroom and career-based learning experiences with business and industry partners. Learners will engage through technology in design, building, problem-solving, repair or service, in a collaborative environment through theory and hands-on experiences.

### **Course Description:**

This course will provide students the opportunity to learn about the fundamentals of maintaining residential buildings. Students will learn about structures, from their foundation to the roof system, in order to better understand homes. Scaled projects and hands on activities will be used to explore all facets of the residence. Construction, plumbing, and electrical safety will be taught throughout each unit, while working on communication and teamwork skills. It will also help students understand how to do simple around-the-house tasks, fixes, or improvements. These skills will improve the look of the residence and save the home owner money by doing the work themselves.

Standards:			
Wisconsin Technology & Engineering Broad Based (BB)			
Standard	Learning Priority	Performance Indicators	
BB1: Students will analyze the core concepts of technology	BB1.a Analyze and use technological systems	BB1.a.4.m: Explain how common energy, power and transportation systems have provisions that detect, bypass or compensate for failures within a system.  BB1.a.5.h: Describe how systems can fail because of design flaws, defect parts, poorly matched parts or they were used beyond their design capabilities.	
	BB1.b: Analyze and use tools and materials.	BB1.b.3.m: Students will describe how resources are the things needed to complete a task (e.g., tools, machines, materials, information, energy, people, capital and time). BB1.b.4.m: Use appropriate tools to measure and layout a piece of material (e.g., length, width, thickness, angles, circles, arcs and volume) within tolerances.	
	BB1.d: Analyze and use electricity and electronic systems.	BB1.d.2.m: Define basic electrical concepts (i.e., voltage, direct and alternating current, resistance, power, polarity, conductor, insulator, series circuit, parallel circuit, seriesparallel circuit, inductance, capacitance, continuity, digital, analog). BB1.d.7.h: Inspect and test components such as switches, connectors, relays, solid state devices and conductors and take appropriate action.	
	BB1.e: Analyze, explain and use control systems.	BB1.e.4.m: Explain how quality control is a planned process to ensure that a product, service or system meets established criteria.	
	BB1.f: Identify and analyze structures.	BB1.f.3.m: Identify and describe basic types of structures (i.e., mass, bearing wall, framed) as they relate to their function. BB1.f.6.h: Justify the application of structural materials and their tradeoffs in the design of structures based on design requirements through optimization (i.e., engineering design process).	

Wisconsin Technology & Engineering Architecture and Construction (AC)		
Standard	Learning Priority	Performance Indicators
Standard: AC1: Students will be able to select and use architecture and construction technologies.	AC1.b: Apply measurement systems in the planning and layout process used in the residential construction industry.	AC1.a.5.m: Select designs for structures based on factors such as building codes and requirements, style, convenience, cost, climate, culture and function.  AC1.a.6.m: Explain the function of foundations and why structures rest on a foundation.  AC1.a.8.m: Identify a variety of materials and subsystems that buildings generally contain.  AC1.a.13.h: Explain how structures can include prefabricated materials.  AC1.b.9.m: Demonstrate use of the Standard Measuring System to the 1/16" and the Metric Measuring System to millimeters.  AC1.b.10.m: Add, subtract, multiply and divide in the Standard Measuring System to the 1/16" and
	AC1.c: Demonstrate the safe and appropriate use of hand tools common to the residential and commercial construction industry.	the Metric Measuring System to millimeters.  AC1.c.3.m: Demonstrate proficiency in the use of simple hand tools such as hammers, screwdrivers, handsaws, planes, sandpaper, nail sets, tin shears, framing squares, utility knives, chalk lines, etc.  AC1.c.4.m: Demonstrate proficiency in obtaining and storing simple hand tools.  AC1.c.5.h: Demonstrate and use the common hand tools of the trade safely and properly.  AC1.c.6.h: Maintain and care for hand tools used in residential and
	AC1.d: Demonstrate the safe and appropriate use of portable power tools that are common to the residential construction industry and are appropriate to the individual student's level.	commercial construction.  AC1.d.2.m: Demonstrate the safe and proper use of power tools.  AC1.d.3.m: Demonstrate the safe and proper use of pneumatic tools.  AC1.d.4.m: Demonstrate proficiency in the proper care of all tools used in a class or lab.  AC1.d.5.h: Demonstrate the use of portable power tools, such as circular saws, table saws, saber saws, drills, planers and sanders, safely and properly.  AC1.d.6.h: Demonstrate the use of portable pneumatic tools, such as rough framing nail guns, interior finishing and brad nail guns,

AC1.e: Demonstrate project management procedures and processes as they occur in a construction project.	hammers, impact wrenches, drills and compressors, safely and appropriately. AC1.d.7.h: Maintain and care for portable power tools and portable pneumatic tools. AC1.e.9.m: Explain how building codes vary based on geological, environmental and political influences. AC1.e.11.m: Explain the importance of positive and constructive communication skills.
AC1.f: Demonstrate the value and necessity of practicing occupational safety in the construction industry facility and job site.	AC1.f.3.m: Explain electrical safety standards and proper wiring methods. AC1.f.4.m: Recognize the potential accidents and injuries that may occur in a given work environment. AC1.f.5.h: Demonstrate the safe use of electrical connection methods and electrical wiring procedures. AC1.f.6.h: Demonstrate the safety procedures and practices in various work environment settings pertaining to residential and commercial construction.
AC1.g: Demonstrate the variety of building phases, systems and techniques used in architecture and construction.	AC1.g.8.m: Recognize that many phases are required to complete a construction project. AC1.g.12.h: Analyze the phases of residential and commercial construction.
AC1.h: Demonstrate the impact of financial, technical, environmental, political, societal and labor trends on the past and future of the construction industry.	AC1.h.4.e: Discuss the importance of energy efficiency. AC1.h.5.m: Describe historically that construction began to meet the basic need of shelter. AC1.h.6.m: Identify that structures are planned and constructed based on financial constraints. AC1.h.7.m: Distinguish how construction can impact the environment both positively and negatively. AC1.h.8.m: Identify the importance of energy efficient, safe, comfortable and healthy structures. AC1.h.11.h: Explain the environmental regulations that influence residential and commercial design.

Wisconsin Common Career Tecl	nnical Standards (WCCTS)-Creati	AC1.h.12.h: Identify the skills and building techniques that are utilized to construct energy efficient, safe, healthy and comfortable structures.	
Communication and Collaboration (C)			
Standard	Learning Priority	Performance Indicators	
Standard: 4C1: Students will think and work creatively to develop innovative solutions to problems and opportunities.	4C1.a: Develop original solutions, products and services to meet a given need.	4C1.a.4.m: Analyze elements of a problem to develop creative solutions.  4C1.a.6.m: Describe how past experiences can inform current problem solving.  4C1.a.7.h: Develop original ways to solve a given problem.  4C1.a.8.h: Design a product or service that could fulfill a human need or desire.  4C1.a.9.h: Apply past experiences to current problems in developing.	
	4C1.b: Work creatively with others to develop solutions, products and services.	current problems in developing innovative solutions.  4C1.b.4.m: Explain how multiple people can develop better solutions than an individual.  4C1.b.5.m: Explain how multiple people and perspectives can develop better ideas than an individual.  4C1.b.6.m: Explain how multiple people and perspectives can improve an existing product or process better than an individual.  4C1.b.7.h: Incorporate the skills and experiences of others to develop a new solution to a problem.  4C1.b.8.h: Work as part of a team to design a product or service that could fulfill a human need or desire.  4C1.b.9.h: Work as part of a team to improve an existing product or process.	
Standard: 4C2: Students will formulate and defend judgments and decisions by employing critical thinking skills.	4C2.a: Develop effective resolutions for a given problem, decision or opportunity using available information.	4C2.a.5.m: Analyze symptoms to identify the root cause of a problem. 4C2.a.6.m: Develop multiple resolutions for a given problem, decision or opportunity. 4C2.a.7.m: Identify problems that became worse due to poorly thought out or poorly informed solutions. 4C2.a.8.m: Explain how implementation of a solution or action may affect one or more corresponding systems. 4C2.a.9.m: Explain how different resolutions may be appropriate under different circumstances.	

		4C2.a.10.m: Explain the process for
		choosing an action or making a
		decision.
		4C2.a.11.h: Determine the
		information needed to address an identified problem.
		4C2.a.12.h: Contrast the benefits and
		drawbacks of various proposed
		resolutions to a given situation.
		4C2.a.13.h: Predict how an action
		could result in unintended
		consequences, both positive and
		negative.
		4C2.a.14.h: Analyze the impact of a
		decision using a systems thinking
		model. 4C2.a.15.h: Determine the best
		resolution for a problem, decision or
		opportunity based on given criteria.
		4C2.a.16.h: Defend an action taken
		or a decision implemented.
	4C2.b: Develop and implement a	4C2.b.3.m: Analyze problems to
	resolution for a new situation using	determine what past experiences
	personal knowledge and experience.	might be related and relevant.
		4C2.b.4.m: Analyze a problem to
		determine how it relates to existing
		knowledge. 4C2.b.5.h: Apply past experience to
		develop a course of action for a new
		situation.
		4C2.b.6.h: Use existing knowledge
		to develop a resolution for a new
		situation, problem or opportunity.
Standard: 4C3: Students will	4C3.a: Communicate thoughts and	4C3.a.8.m: Implement effective
communicate and collaborate with	feelings with others using verbal and	listening skills in resolving a situation.
others to accomplish tasks and develop solutions to problems and	non-verbal language.	4C3.a.9.h: Develop a mutually
opportunities.		acceptable response to a question or
opportunities.		problem.
		4C3.a.11.h: Communicate
		effectively in the presence of a
		language barrier.
		4C3.a.12.h: Utilize effective
		listening skills in creating consensus
	4C3.b: Work collaboratively with	in a group. 4C3.b.4.m: Use idea generating
	others.	practices as part of a group.
	onicio.	4C3.b.5.m: Describe ways to
		facilitate group collaboration.
		4C3.b.6.m: Demonstrate the use of
		various tools to communicate
		effectively with an individual or a
		group.
		4C3.b.7.h: Participate in group
		processes to generate consensus.

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		4C3.b.8.h: Lead group processes to
		generate consensus.
	4C3.c: Use interpersonal skills to	4C3.c.5.m: Contribute to resolving
	resolve conflicts with others in an	conflicts that occur within a team or
	ethical manner.	group.
		4C3.c.6.m: Explore the ethical
		considerations of a current or
		historical action or decision.
		4C3.c.7.h: Resolve conflicts
		productively with individuals as they
		_ =
		arise.
		4C3.c.8.h: Lead a team or group
		through a conflict resolution process
		to reach a productive outcome.
<b>Wisconsin Common Career Tecl</b>	hnical Standards (WCCTS)-Caree	r Development (CD)
Standard	Learning Priority	Performance Indicators
Standard: CD1: Students will	CD1.a: Identify person strengths,	CD1.a.2.m: Assess personal
consider, analyze and apply an	aptitudes and passions.	strengths, aptitudes and passions
awareness of self, identity and	T T T T T T T T T T T T T T T T T T T	related to potential future careers
culture to identify skills and talents.		CD1.a.3.h: Evaluate various
culture to lacinity skins and talends.		occupations and career pathways to
		identify personal, academic and
		career goals based on personal
	CD1 by Day of the Control	strengths, aptitudes and passions.
	CD1.b: Demonstrate effective	CD1.b.4.m: Identify long and short-
	decision-making, problem solving	term goals.
	and goal setting.	CD1.b.5.h: Use a decision-making
		and problem-solving model.
	CD1.c: Interact effectively with	CD1.c.7.m: Display cooperative
	others in similar and diverse teams.	behavior and identify personal
		strengths and assets in groups.
		CD1.c.11.h: Evaluate how the
		personal strengths and assets of
		others contribute to a cooperative
		group atmosphere.
		CD1.c.12.h: Assess how respect and
		appreciation for individual and
		cultural differences impacts group
	CD1.1.4.1.	processes.
	CD1.d: Apply a range of relevant	CD1.d.4.m: Apply decision-making
	decision-making strategies.	strategies to personal and team
		interactions.
		CD1.d.5.h: Predict the outcome of
		various decisions on personal, social
		and career success.
		CD1.d.6.h: Evaluate the impact of
		personal decision-making strategies
		on specific outcomes.
Standard: CD2: Students will	CD2.a: Apply academic experiences	CD2.a.2.m: Describe a diverse range
	to the world of work, inter-	
identify the connection between		of opportunities available beyond
educational achievement and work	relationships and the community.	high school.
opportunities in order to reach		CD2.a.3.h: Evaluate how
personal and career goals.		performance and connections within
		the learning community enhance
		future opportunities.
		tuture opportunities.

	1	CD2.a.4.h: Determine those
		opportunities that best support
		attainment of a specific career goal.
	CD2.b: Assess attitudes and skills	CD2.b.5.m: Apply academic
	that contribute to successful learning	information from a variety of
	in school and across the life span.	sources to enhance career
	in sensor and across the me span.	preparedness and lifelong learning.
		CD2.b.6.m: Research local and
		regional labor market and job
		growth information to analyze career
		opportunities.
		CD2.b.7.h: Interpret and analyze the
		impact of current education, training
		and work trends on life, learning and
		career plans.
		CD2.b.8.h: Assess education and
		training opportunities to acquire new
		skills necessary for career
		advancement.
		CD2.b.9.h: Analyze local and
		regional labor market and job
		growth information to select a career pathway for potential advancement.
Standard: CD3: Students will create	CD3.a: Investigate the world of	CD3.a.5.m: Demonstrate the ability
and manage a flexible and	work in order to gain knowledge of	to use technology to retrieve and
responsive individualized learning	self in order to make informed	manage career information that
plan to meet their career goals.	career decisions.	inspires educational achievement.
Lane of any or and a series Series.		CD3.a.6.m: Build an ongoing
		awareness of personal abilities,
		skills, interests and motivation and
		determine how these fit with chosen
		career pathway.
		CD3.a.7.m: Develop an individual
		learning plan to enhance educational
		achievement and attain career goals
		based on a career pathway.
		CD3.a.9.m: Use assessment results
		in educational planning including career awareness.
		CD3.a.10.h: Analyze how career
		plans may be affected by personal
		growth, external events and changes
		in motivations and aspirations.
		CD3.a.11.h: Apply academic and
		employment readiness skills in
		work-based learning situations such
		as internships, shadowing and/or
		mentoring experiences.
		CD3.a.12.h: Evaluate changes in
		local, national and global
		employment trends, societal needs
		and economic conditions related to
		career planning.
		CD3.a.14.h: Implement an
		individual learning plan to maximize
	1	academic ability and achievement.

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	CD3.b: Examine and evaluate	CD3.b.2.m: Describe educational
	opportunities that could enhance life	levels (e.g., work-based learning,
	and career plans and articulate plan	certificate, two-year, four-year and
	to guide decisions and actions.	professional degrees) and
		performance skills needed to attain
		personal and career goals.
		CD3.b.3.m: Demonstrate openness
		to exploring a wide range of
		occupations and career pathways.
		CD3.b.4.h: Implement strategies for
		responding to transition and change
		with flexibility and adaptability.
		CD3.b.5.h: Evaluate the relationship
		between educational achievement
		and career development.
	CD3.c: Employ career management	CD3.c.3.m: Identify work values and
	strategies to achieve future career	needs.
	success and satisfaction.	CD3.c.4.m: Define adaptability and
	success and satisfaction.	flexibility in the world of work.
		CD3.c.5.h: Determine how
		principles of equal opportunity,
		equity, respect, inclusiveness and
		fairness, affect career planning and
		management.
		CD3.c.6.h: Discuss how adaptability
		and flexibility, especially when
		initiating or responding to change,
		contributes to career success.
Standard: CD4: Students will	CD4.a: Identify and demonstrate	CD4.a.4.m: Demonstrate flexibility
identify and apply employability		
	nocitive work behaviors and	and willingness to loom now
	positive work behaviors and	and willingness to learn new
skills.	personal qualities needed to be	knowledge and skills.
		knowledge and skills. CD4.a.5.m: Identify positive work-
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work- qualities typically desired in each of
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work- qualities typically desired in each of the career cluster's pathways.
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive workqualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status.
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	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status. CD4.a.8.h: Apply communication strategies when adapting to a
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status. CD4.a.8.h: Apply communication strategies when adapting to a culturally diverse environment.
	personal qualities needed to be	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status. CD4.a.8.h: Apply communication strategies when adapting to a culturally diverse environment. CD4.a.9.h: Use positive work-
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	personal qualities needed to be employable.	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status. CD4.a.8.h: Apply communication strategies when adapting to a culturally diverse environment. CD4.a.9.h: Use positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.10.h: Manage work roles and
	personal qualities needed to be employable.  CD4.b: Demonstrate skills related to	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status. CD4.a.8.h: Apply communication strategies when adapting to a culturally diverse environment. CD4.a.9.h: Use positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.10.h: Manage work roles and responsibilities to balance them with other life roles and responsibilities.
	personal qualities needed to be employable.  CD4.b: Demonstrate skills related to seeking and applying for	knowledge and skills. CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status. CD4.a.8.h: Apply communication strategies when adapting to a culturally diverse environment. CD4.a.9.h: Use positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.10.h: Manage work roles and responsibilities to balance them with other life roles and responsibilities.
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		and decision-making skills to exhibit qualifications to a potential employer in an interview.
	CD4.c: Identify and exhibit traits for	CD4.c.3.m: Distinguish between
	retaining employment.	appropriate behaviors in a social vs.
		professional setting.
		CD4.c.4.h: Model behaviors that
		demonstrate reliability and dependability.
		CD4.c.5.h: Maintain appropriate
		dress and behavior for the job to
		contribute to a safe and effective
		workplace/jobsite.
		CD4.c.6.h: Complete required
		employment forms and documentation.
		CD4.c.7.h: Summarize key activities
		necessary to retain a job in an
		industry.
	CD4.d: Develop positive	CD4.d.4.m: Use cooperative
	relationships with others.	behavior in helping peers
		accomplish goals and tasks.
		CD4.d.5.h: Participate in co- curricular and community activities
		to enhance the school experience.
		CD4.d.6.h: Evaluate the best method
		to assist co-workers in
		accomplishing goals and tasks.
		CD4.d.7.h: Examine the skills
		required to enable students to
		successfully transition to post-
		secondary opportunities. CD4.d.8.h: Use a systematic
		•
		approach to academic and career
		approach to academic and career planning for students to achieve their learning, socio-cultural and work
		approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.
Wisconsin Common Career Tech (EHS)	nnical Standards (WCCTS)-Enviro	approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.
(EHS) Standard	Learning Priority	approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.
Standard Standard: EHS1: Students will	Learning Priority EHS1.d: Implement personal and	approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.  Donmental Health and Safety  Performance Indicators
Standard Standard: EHS1: Students will identify the importance and	Learning Priority EHS1.d: Implement personal and jobsite safety rules and regulations	approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.  onmental Health and Safety
Standard Standard: EHS1: Students will identify the importance and interrelationships of health, safety	Learning Priority EHS1.d: Implement personal and jobsite safety rules and regulations to maintain and improve safe and	approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.  Commental Health and Safety  Performance Indicators  EHS1.d.5.m: Recognize and use
Standard Standard: EHS1: Students will identify the importance and	Learning Priority EHS1.d: Implement personal and jobsite safety rules and regulations	approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.  Commental Health and Safety  Performance Indicators  EHS1.d.5.m: Recognize and use systems in school and in the

performance for continuous	EHS1.d.6.m: Discus	s employee
improvement.	rights and responsible	ilities and how
	to apply them in a w	orkplace setting.
	EHS1.d.7.h: Assess	workplace
	conditions with rega	rd to personal
	and environmental h	ealth and safety.
	EHS1.d.8.h: Identify	different
	workplace systems t	hat protect and
	enhance personal an	d environmental
	health and safety.	
	EHS1.d.9.h: Describ	e employee
	rights and responsible	il-ities to
	maintain workplace	health and
	safety, including cor	npliance with
	rules and laws.	

Key Vocabulary	y <b>:</b>		
Table saw	Jointer	Planer	Bandsaw
Drill press	Router	Miter saw	Jig saw
Hand tools	Stud	Flooring system	Concrete
Cement	Header	Top plate	Double top plate
Roof system	Wires	AC	DC
Circuits	Boxes	Outlet	Switches
3 way	4 way	Backing	Drywall
Drywall mud	Tape	Checking	Mortgage
Living within means	Finances	Pex	Copper
Fittings	Solder	Torch	Flint
Tile	Subfloor	Carpet	Laminate
Wood	Tree	Shrub	Annual
Perennial	Spring	Sommer	Fall
Winter			

## **Topics/Content Outline- Units and Themes:**

### Quarter 1:

- Tools and Safety
- Framing
- Electrical
- Interior Walls
- Home Finance
- Plumbing

### **Quarter 2:**

- Heating, Ventilation, and Air Conditioning
- Tile/carpet/laminate/wood
- Landscaping
- Seasonal maintenance

- Ladder Safety
- Chainsaw safety

### **Primary Resource(s):**

Modern Carpentry, 12<sup>th</sup> Edition
 Goodheart Wilcox
 ISBN: 978-1-63126-083-4
 © 2015

 House Wiring Simplified, 14<sup>th</sup> Edition Goodheart Wilcox ISBN: 978-1-63126-920-2
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