

	<p>701 Gainsboro Road NW Roanoke, VA 24016 540-900-3340 www.buildsmartinstitute.com info@buildsmartinstitute.com</p>
Course Name	
CORE Fundamentals of Construction- Morning Class COR101	Designed to provide entry level students an overview of a variety of construction careers by learning basic construction knowledge and skills including: Construction Safety, Construction math, Introduction to Construction Hand and Power Tools & their use , Materials Handling, Introduction to Construction Drawings and Employability Skills such as critical thinking skills, problem solving and effective self-presentation. Students successfully completing the course will receive an OSHA 10 hour for Construction Card, NCCER certificate, HBI Certificate, Build Smart Institute Competency Badges and a 1st Aid/CPR card
CORE Fundamentals of Construction- Evening Class COR101	Designed to provide entry level students an overview of a variety of construction careers by learning basic construction knowledge and skills including: Construction Safety, Construction math, Introduction to Construction Hand and Power Tools & their use , Materials Handling, Introduction to Construction Drawings and Employability Skills such as critical thinking skills, problem solving and effective self-presentation. Students successfully completing the course will receive an OSHA 10 hour for Construction Card, NCCER certificate, HBI Certificate, Build Smart Institute Competency Badges and a 1st Aid/CPR card
CORE Fundamentals of Construction Opt Out COO101	A workshop, skills and knowledge exam sessions for individuals who believe they have the experience and skills to complete all of the hands on performance assessments and written exams to obtain an NCCER Core Certificate without having to take the full Core class. A three week program of which the first two weeks are two hour per day workshop for two weeks which very generally reviews the basic knowledge and skills and the last week is reserved for performing the skills assessment and written exams. Individuals completing all of the performance tests and written exams successfully will receive a NCCER CORE Certificate. There are no refunds for not successfully completing the Certification requirements
Electrical 101 (64 Hours) ELE101	64 Hour Course. Entry Level Course to produce trainees with the following basic skills: Orientation to the Electrical Trade, Electrical Safety, Introduction to Electrical Circuits, Electrical Theory, Introduction to the National Electrical Code, Device Boxes, Hand Bending, Raceways and Fittings, Conductors and Cables, Basic Electrical Construction Drawings, Residential Electrical Services, and Electrical Test Equipment. NEXT STEPS- Electrical 201, 301, 401
Journeyman and Master Electrician Licensing Exam Preparation Course (8 Hours) ELE500	This Course is designed to assist the student as to how to prepare for the Master or Journeyman State of Virginia Electrical Licensing Exam. The course covers: <ul style="list-style-type: none"> • What hours and experience are required in order to sit for the exam <ul style="list-style-type: none"> • Applying to take the Exam • Pre-Exam Preparation approaches • What to study ahead of the Exam <ul style="list-style-type: none"> • How to study for the exam • What Definitions to become familiar with • What is allowed and not allowed while taking the Exam <ul style="list-style-type: none"> • Helpful hints while taking the Exam • Exam Question Sampling
Project Management (Virtual) 32 Hours plus weekly assignments PRM101	This Course is designed to introduce the skills or enhance the skills of a Project Manager; it is beneficial for anyone that has recently entered or about to enter into a project management role. Includes performance tasks to assist the learning process. Topics include: <ul style="list-style-type: none"> • Introduction to Project Management <ul style="list-style-type: none"> • Safety • Interpersonal Skills • Issues and resolutions • Construction Documents • Construction Planning • Estimating and Control <ul style="list-style-type: none"> • Scheduling • Resource Control • Quality Control • Continuous Improvement

Course Name	Course Description
<p>OSHA 10 (10 Hours)</p>	<p>10 Hour training Topics</p> <ul style="list-style-type: none"> • Introduction to OSHA • OSHA Focus Four <ul style="list-style-type: none"> o Falls o Electrocutions o Struck-By o Caught-In or Between • Personal Protective Equipment • Health Hazards In Construction <ul style="list-style-type: none"> • Electives Include: <ul style="list-style-type: none"> <input type="checkbox"/>Cranes, Derricks, Hoists, Elevators and Conveyors <input type="checkbox"/>Excavations <input type="checkbox"/>Materials Handling, Storage, Use and Disposal <input type="checkbox"/>Scaffolds <input type="checkbox"/>Stairways and Ladders <input type="checkbox"/>Tools-Hand and Power • Other Optional hazards or policies relevant to your organization
<p>OSHA 30 (30 Hours)</p>	<p>30 Hour training Topics</p> <ul style="list-style-type: none"> • Introduction to OSHA • Managing Safety and Health <ul style="list-style-type: none"> • OSHA Focus Four <ul style="list-style-type: none"> o Falls o Electrocutions o Struck-By o Caught-In or Between • Personal Protective and Life Saving Equipment • Health Hazards In Construction <ul style="list-style-type: none"> • Stairways and Ladders <ul style="list-style-type: none"> • Electives Include: <ul style="list-style-type: none"> <input type="checkbox"/>Concrete and Masonry Construction <input type="checkbox"/>Confined Space Entry <input type="checkbox"/>Cranes, Derricks, Hoists, Elevators and Conveyors <ul style="list-style-type: none"> <input type="checkbox"/>Ergonomics <input type="checkbox"/>Excavations <input type="checkbox"/>Fire Protection and Prevention <input type="checkbox"/>Materials Handling, Storage, Use and Disposal <input type="checkbox"/>Motorized Vehicles, Mechanical Equipment <ul style="list-style-type: none"> <input type="checkbox"/>Powered Industrial Vehicles <input type="checkbox"/>Safety and Health Programs <ul style="list-style-type: none"> <input type="checkbox"/>Scaffolds
<p>Construction Technology 101 (Residential) CTR101</p>	<p>Construction Tech 101</p> <ul style="list-style-type: none"> • OSHA (10) • Flooring Systems • Wall Systems • Ceiling Joist and Roof Framing • Basic Stair Layout
<p>Construction Technology 201 (Residential) CTR201</p>	<p>Construction Tech 201</p> <ul style="list-style-type: none"> • Site Layout One • Introduction to Construction Equipment <ul style="list-style-type: none"> • Roofing Applications • Exterior Finishing • Cabinet Installation
<p>Construction Technology 301 (Residential) CTR301</p>	<p>Construction Tech 301</p> <ul style="list-style-type: none"> • Prepare for Concrete Placement • Handling and Placing Concrete <ul style="list-style-type: none"> • Introduction to Masonry • Masonry Units and Installation Techniques
<p>Construction Technology 401 (Residential) CTR401</p>	<p>Construction Tech 401</p> <ul style="list-style-type: none"> • Drywall Installation • Drywall Finishing <ul style="list-style-type: none"> • Electrical Safety • Residential Electrical Services <ul style="list-style-type: none"> • Introduction to HVAC • Introduction to Drain, Waste, Vent (DWV) Systems <ul style="list-style-type: none"> • Plastic Pipe and Fittings • Copper Tube and Fittings

Course Name	Course Description
Construction Technology 101 (Commercial) CTC101	Construction Tech 101 <ul style="list-style-type: none"> • OSHA 10 • Commercial Drawings • Cold-Formed Steel Framing • Thermal & Moisture Protection • Drywall Installation • Drywall Finishing • Acoustical Ceilings
Construction Technology 201 (Commercial) CTC201	Construction Tech 201 <ul style="list-style-type: none"> • Floor Installation • Protecting Adjacent Surfaces • Basic Surface Preparation • Brushing & Rolling Paints and Coatings • Doors & Door Hardware • Cabinet Installation • Window, Door, Floor, & Ceiling Trim
Construction Technology 301 (Commercial) CTC301	Construction Tech 301 <ul style="list-style-type: none"> • Concrete Forming • Reinforcing Concrete • Vertical Forms • Foundations & Slab on Grade • Handling & Placing Concrete
Construction Technology 401 (Commercial) CTC401	Construction Tech 401 <ul style="list-style-type: none"> • Site Layout One • Introduction to Construction Equipment • Trenching & Excavation • Steel Erection • Heavy Equipment, Forklift, & Crane Safety • Working from Elevations • Fundamentals of Crew Leadership <ul style="list-style-type: none"> • Electrical Safety • Introduction to HVAC • Introduction to Drain, Waste, Vent (DWV) Systems
Building Technology for Property Management (Hours=58) BTP101	GENERAL BUILDING CONSTRUCTION TECHNOLOGY CONCEPTS CARPENTRY MAINTENANCE ELECTRICAL MAINTENANCE PLUMBING MAINTENANCE HVAC/PREVENTIVE MAINTENANCE LANDSCAPE MAINTENANCE APPLIANCE REPAIR
Blueprint Reading (Hours=16) BLR101	This Course is designed to help all associated with a project to read and implement project blueprints. Includes performance tasks to assist the learning process. The course covers: <ul style="list-style-type: none"> • Terms, components, & symbols of construction drawings • Reading specification associates with drawings <ul style="list-style-type: none"> • Quantity takeoffs • Commercial drawings • Residential drawings • Trade drawings • Civil drawings • Structural drawings • Life Safety Drawings
Apprenticeship Mentor Train the Trainer Program Outline	What is an Apprenticeship Program? How does an Apprenticeship Program benefit Employers and your Company? How does an Apprenticeship Program benefit Workers? What are the requirements of the State Registered Apprenticeship Program? <ul style="list-style-type: none"> • Workplace Diversity • Mentors as Teachers & On-site Advisors • Giving Instruction • Mentors as communicators • Problem solving
Fundamentals of Crew Leadership (22.5 Hours) FCL101	This Course is designed to assist the recently or about to be promoted crew leader; it is beneficial for anyone in management. Includes performance tasks to assist the learning process. The course covers: <ul style="list-style-type: none"> • Basic leadership skills • Different leadership styles <ul style="list-style-type: none"> • Communication • Delegating • Problem solving • Jobsite safety and the crew leader's role • Project planning, scheduling <ul style="list-style-type: none"> • Estimating.
Project Supervision (85 Hours) PSS101	This Course is designed to introduce the skills or enhance the skills of a Project Supervisor or Superintendent; it is beneficial for anyone in site management. Includes performance tasks to assist the learning process. The course covers: <ul style="list-style-type: none"> • Orientation to the Supervision Role • Human relations and problem solving <ul style="list-style-type: none"> • Safety: • Quality Control • Contract and Construction Documents • Document control and estimating • Planning and Scheduling

Course Name	Course Description
Cold-Formed Steel Framing (15 Hours) CSF101	Materials and Tools Fasteners Materials Take off Layout and Installation of Steel Framed Walls Steel Floor & Ceiling Systems Overview of Steel Roof Systems
Drywall Installation & Finishing (32.5 Hours) DIF101	Drywall Assembly Components Drywall Installation Rated vs. Nonrated Assemblies Estimating Drywall Finishing Standards Finishing Materials Finishing Tools Finishing Procedures Estimating Drywall Finishing Materials
Acoustical Ceilings (20 Hours) ACT101	Establishing a level line Explain the common terms related to sound waves and acoustical ceiling materials. Identify the different types of suspended ceilings. Interpret plans related to ceiling layout. Sketch the ceiling layout for a basic suspended ceiling. Perform a material takeoff for a suspended ceiling. Installation of suspended ceilings.
NCCER Building Trades One and Two VBT101 & VBT201	Please inquirer at 540-900-3340 or info@buildsmartinstitute.com
NCCER Carpentry One, Two, Three/Four VCA101, VCA201, VCA301, & VCA401	Please inquirer at 540-900-3340 or info@buildsmartinstitute.com
BSI Virtual	See Free Course Samples at the website. There are more LMS materials and Instructor / Student Materials on the full courses Please inquirer at 540-900-3340 or info@buildsmartinstitute.com