Construction Skills Competency Checklist

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| Skill or competency | **Job ready** | **Almost job ready** | **Needs improve- ment** | **Unsatis- factory** | **Instructor initials** | **Student Initials** | **Date** |
| **Safety skills** | | | | | | | |
| **Identify safety rules** |  |  |  |  |  |  |  |
| **Identify safety equipment** |  |  |  |  |  |  |  |
| **Use safety equipment** |  |  |  |  |  |  |  |
| **Lift objects safely** |  |  |  |  |  |  |  |
| **Use basic first aid procedures** |  |  |  |  |  |  |  |
| **Use hand tools safely** |  |  |  |  |  |  |  |
| **Use power tools safely** |  |  |  |  |  |  |  |
| **Use building materials safely** |  |  |  |  |  |  |  |
| **General construction skills** | | | | | | | |
| **Identify and use measurement tools** |  |  |  |  |  |  |  |
| **Identify and use layout tools** |  |  |  |  |  |  |  |
| **Identify and use hand tools** |  |  |  |  |  |  |  |
| **Select correct tool for job** |  |  |  |  |  |  |  |
| **Identify nails and fasteners** |  |  |  |  |  |  |  |
| **Use nails and fasteners** |  |  |  |  |  |  |  |
| **Identify grades of lumber** |  |  |  |  |  |  |  |
| **Identify grades of plywood** |  |  |  |  |  |  |  |
| **Identify actual and nominal dimensions of surfaced lumbers** |  |  |  |  |  |  |  |
| **Identify common lumber defects** |  |  |  |  |  |  |  |
| **Use correct nailing techniques** |  |  |  |  |  |  |  |
| **Estimate square feet** |  |  |  |  |  |  |  |
| **Estimate linear feet** |  |  |  |  |  |  |  |
| **Estimate cubic feet** |  |  |  |  |  |  |  |
| **Construct scaffolding** |  |  |  |  |  |  |  |
| **Identify purposes of bulding codes, zoning laws, permits** |  |  |  |  |  |  |  |

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| **Portable power tools** | | | | | | | |
| **Identify power tools** |  |  |  |  |  |  |  |
| **Determine use of power tools** |  |  |  |  |  |  |  |
| **Select correct tool for job** |  |  |  |  |  |  |  |
| **Operate circular saw** |  |  |  |  |  |  |  |
| **Operate electric drill** |  |  |  |  |  |  |  |
| **Identify drill bits** |  |  |  |  |  |  |  |
| **Operate portable routier** |  |  |  |  |  |  |  |
| **Operate miter saw** |  |  |  |  |  |  |  |
| **Operate power sander** |  |  |  |  |  |  |  |
| **Operate screw shooter** |  |  |  |  |  |  |  |
| **Stationary machine skills** | | | | | | | |
| **Operate planer** |  |  |  |  |  |  |  |
| **Operate joiner** |  |  |  |  |  |  |  |
| **Operate bench saw** |  |  |  |  |  |  |  |
| **Operate radial saw** |  |  |  |  |  |  |  |
| **Operate scrall saw** |  |  |  |  |  |  |  |
| **Operate drill press** |  |  |  |  |  |  |  |
| **Operate rip saw** |  |  |  |  |  |  |  |
| **Construction planning skills** | | | | | | | |
| **read architect’s scale** |  |  |  |  |  |  |  |
| **read and interpret drawings** |  |  |  |  |  |  |  |
| **interpret blueprint symbols** |  |  |  |  |  |  |  |
| **interpret specifications** |  |  |  |  |  |  |  |
| **identify steps of the building process** |  |  |  |  |  |  |  |
| **estimate labor costs** |  |  |  |  |  |  |  |
| **identify materials costs** |  |  |  |  |  |  |  |
| **organize building materials** |  |  |  |  |  |  |  |

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| **Preparing the building site** | | | | | | | |
| **Use builder’s level** |  |  |  |  |  |  |  |
| **Establish elevation** |  |  |  |  |  |  |  |
| **Reference points** |  |  |  |  |  |  |  |
| **Layout building** |  |  |  |  |  |  |  |
| **Square building using 6-8-1 method and diagonal** |  |  |  |  |  |  |  |
| **Demolition skills** | | | | | | | |
| **Use hand demolition skills** |  |  |  |  |  |  |  |
| **Use correct demo procedures** |  |  |  |  |  |  |  |
| **Use safe demo procedures** |  |  |  |  |  |  |  |
| **Construct ramps** |  |  |  |  |  |  |  |
| **Construct chutes** |  |  |  |  |  |  |  |
| **Correctly place dumpsters** |  |  |  |  |  |  |  |
| **Pack dumpsters** |  |  |  |  |  |  |  |
| **Shoring** |  |  |  |  |  |  |  |
| **Use shoring post** |  |  |  |  |  |  |  |
| **Use screw jacks** |  |  |  |  |  |  |  |
| **Make and use A-frames** |  |  |  |  |  |  |  |
| **Building and installing forms** | | | | | | | |
| **Construct footing forms** |  |  |  |  |  |  |  |
| **Place and make keys for footing and foundation** |  |  |  |  |  |  |  |
| **Make plywood forms** |  |  |  |  |  |  |  |
| **Make concrete forms** |  |  |  |  |  |  |  |
| **Assemble premade forms** |  |  |  |  |  |  |  |
| **Brace concrete forms** |  |  |  |  |  |  |  |
| **Set grades** |  |  |  |  |  |  |  |
| **Pour concrete** |  |  |  |  |  |  |  |
| **Strip forms** |  |  |  |  |  |  |  |
| **Place anchor bolts** |  |  |  |  |  |  |  |

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| **Floor framing skills** | | | | | | | |
| **Snap lines** |  |  |  |  |  |  |  |
| **Square foundations** |  |  |  |  |  |  |  |
| **Frame sills** |  |  |  |  |  |  |  |
| **Frame girders** |  |  |  |  |  |  |  |
| **Install steel columns** |  |  |  |  |  |  |  |
| **Layout, cut, and install joint** |  |  |  |  |  |  |  |
| **Frame stair openings** |  |  |  |  |  |  |  |
| **Frame chimney openings** |  |  |  |  |  |  |  |
| **Install subfloor** |  |  |  |  |  |  |  |
| **Install firestop** |  |  |  |  |  |  |  |
| **Install joist hangers** |  |  |  |  |  |  |  |
| **Install steel bridging** |  |  |  |  |  |  |  |
| **Install cross bridging** |  |  |  |  |  |  |  |
| **Install solid bridging** |  |  |  |  |  |  |  |
| **Cut stair ringers** |  |  |  |  |  |  |  |
| **Exterior wall framing skills** | | | | | | | |
| **Layout shoes and plates** |  |  |  |  |  |  |  |
| **Layout partitions** |  |  |  |  |  |  |  |
| **Frame window openings** |  |  |  |  |  |  |  |
| **Frame door openings** |  |  |  |  |  |  |  |
| **Frame fireplace wall openings** |  |  |  |  |  |  |  |
| **Precut studs** |  |  |  |  |  |  |  |
| **Layout dimensions for studs** |  |  |  |  |  |  |  |
| **Sheath exterior walls** |  |  |  |  |  |  |  |
| **Install double plates** |  |  |  |  |  |  |  |
| **Hang exterior doors** |  |  |  |  |  |  |  |
| **Install windows** |  |  |  |  |  |  |  |

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| **Interior wall framing skills** | | | | | | | |
| **Identify parts of framed wall** |  |  |  |  |  |  |  |
| **Install strapping** |  |  |  |  |  |  |  |
| **Layout interior walls** |  |  |  |  |  |  |  |
| **Construct partition backers** |  |  |  |  |  |  |  |
| **Construct comers and headers** |  |  |  |  |  |  |  |
| **Layout shoes and plates** |  |  |  |  |  |  |  |
| **Frame bearing partitions** |  |  |  |  |  |  |  |
| **Frame nonbearing partitions** |  |  |  |  |  |  |  |
| **Install blocking** |  |  |  |  |  |  |  |
| **Install bracing** |  |  |  |  |  |  |  |
| **Framing ceilings and roofs** | | | | | | | |
| **Layout ceiling joist and rafters** |  |  |  |  |  |  |  |
| **Install ceiling joints** |  |  |  |  |  |  |  |
| **Frame fireplace openings** |  |  |  |  |  |  |  |
| **Layout common rafter patterns** |  |  |  |  |  |  |  |
| **Figure rafter lengths** |  |  |  |  |  |  |  |
| **Cut rafters** |  |  |  |  |  |  |  |
| **Crow foot** |  |  |  |  |  |  |  |
| **Layout ridge** |  |  |  |  |  |  |  |
| **Install common rafters** |  |  |  |  |  |  |  |
| **Install gable studs** |  |  |  |  |  |  |  |
| **Install sheathing on roof** |  |  |  |  |  |  |  |
| **Install facia** |  |  |  |  |  |  |  |
| **Install rakes** |  |  |  |  |  |  |  |
| **Install soffits** |  |  |  |  |  |  |  |
| **Install drip edge** |  |  |  |  |  |  |  |
| **Apply roofing paper** |  |  |  |  |  |  |  |
| **Install shingles** |  |  |  |  |  |  |  |

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| **Exterior finishing skills** | | | | | | | |
| **Erect corner boards** |  |  |  |  |  |  |  |
| **Install wood shingles** |  |  |  |  |  |  |  |
| **Install clapboards** |  |  |  |  |  |  |  |
| **Install tongue and groove siding** |  |  |  |  |  |  |  |
| **Install plywood siding** |  |  |  |  |  |  |  |
| **Install composition siding** |  |  |  |  |  |  |  |
| **Install aluminum siding** |  |  |  |  |  |  |  |
| **Install vinyl siding** |  |  |  |  |  |  |  |
| **Install shake shingles** |  |  |  |  |  |  |  |
| **Install cornice trim** |  |  |  |  |  |  |  |
| **Install aluminum gutters** |  |  |  |  |  |  |  |
| **Install wood gutters** |  |  |  |  |  |  |  |
| **Interior finishing skills** | | | | | | | |
| **Install installation** |  |  |  |  |  |  |  |
| **Identify different R-values** |  |  |  |  |  |  |  |
| **Install vapor batteries** |  |  |  |  |  |  |  |
| **Install drywall** |  |  |  |  |  |  |  |
| **Install duro-rock** |  |  |  |  |  |  |  |
| **Install blue board** |  |  |  |  |  |  |  |
| **Tape drywall** |  |  |  |  |  |  |  |
| **Apply joint compound** |  |  |  |  |  |  |  |
| **Plaster** |  |  |  |  |  |  |  |
| **Install underlayment** |  |  |  |  |  |  |  |
| **Install bifold doors** |  |  |  |  |  |  |  |
| **Install finish trim** |  |  |  |  |  |  |  |
| **Install baseboards** |  |  |  |  |  |  |  |
| **Install closet shelves and poles** |  |  |  |  |  |  |  |
| **Install hardwood floors** |  |  |  |  |  |  |  |
| **Install and build stairs** |  |  |  |  |  |  |  |
| **Install banisters and railing** |  |  |  |  |  |  |  |
| **Install vinyl flooring** |  |  |  |  |  |  |  |
| **Flash patch wooden floors** |  |  |  |  |  |  |  |
| **Install stock cabinets** |  |  |  |  |  |  |  |
| **Install conter tops** |  |  |  |  |  |  |  |

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| **Erecting staging** | | | | | | | |
| **Use extension ladder** |  |  |  |  |  |  |  |
| **Use step ladder** |  |  |  |  |  |  |  |
| **Use ladder brackets** |  |  |  |  |  |  |  |
| **Use pump jacks** |  |  |  |  |  |  |  |
| **Use wall brackets** |  |  |  |  |  |  |  |
| **Use roof brackets** |  |  |  |  |  |  |  |
| **Use pipe staging** |  |  |  |  |  |  |  |
| **Work habits and career readiness** | | | | | | | |
| **Identify career opportunities** |  |  |  |  |  |  |  |
| **Punctuality** |  |  |  |  |  |  |  |
| **Attendance** |  |  |  |  |  |  |  |
| **Positive attitude** |  |  |  |  |  |  |  |
| **Effectively manage difference & conflict** |  |  |  |  |  |  |  |
| **Supports team effort** |  |  |  |  |  |  |  |
| **Other skills** | | | | | | | |
| **1.** |  |  |  |  |  |  |  |
| **2.** |  |  |  |  |  |  |  |
| **3.** |  |  |  |  |  |  |  |
| **4.** |  |  |  |  |  |  |  |
| **Attach comments if needed.**  *This construction skills competency list was adapted from a list from YouthBuild Boston* | | | | | | | |