Chief Architect

Certification Testing

USER INTERFACE COMPETENCY AREA Matrix # Category Knowledge Startup Options 100 Familiar with interface and use Familiar with Menu organization Knowledge of info available in menus Menus Awareness of tool families (submenus) Paste - Special Functions Familiar with parent-child buttons Familiar with drop-down tools Understand what a toolbar configuration is **Toolbars** Know how configs can affect work flow Ability to customize toolbars Edit toolbar changes based on object Plan Check Use Checks Spell Check Use How to change default template **Templates** How to create a new template Saving and using custom templates Save and Retrieve Plans Knowledge of the Chief folder paths File Management Data folder path and contents Effective Folder Structure for plans and layouts Reset To Defaults Understanding of scope and use Delete Objects Understanding of scope and use Understanding that Preferences are global Appearance Contextual Menus disabled effect Toolbars - ability to change from dropdown Adjust colors to enhance interface Font Library Browser Text and page setup General Folders New plans Layers Unit conversions **Preferences** Time Tracker Architectural Select Room Before Wall in 3D effect Edit Marquee select differences Cross Hair Settings Behaviors **Snap Properties** material list Report Style Master list Categories Render Reset Options Use of Zoom Tools and scroll wheel How to Pan the display Swapping views View and Zoom Tools Tiling Windows Aerial view

Closing active windows

Default Behavior

l		Alternate Behavior
		Move
Edit Behaviors		Resize Concentric
		Fillet
		Edit Object Parts
		Rotate / Resize about Current Point
		How To click on an object to select
		Shift click, ctrl click and shift click drag ctrl + A to select all
Selecting Objects		Select Next Object
		Edit Area
		Select Same Type
		Object Snaps
Snap Settings		Angle Snaps Grid Snaps
Chap Coungs		Bumping / Pushing
		Extensions
Special Use Tools		Plans Database
,		Time Tracker
Help		Familiar with Contents and Use
Пер		Tallinal With Contents and OSC
COMPETENCY AREA	DEFAU	LT SETTINGS
Category	Matrix #	
General		Understanding Defaults are plan specific
Contrai		
Dynamic Defaults		Understanding what object specifications are affected
Floor Defaults		Understanding use and availability
Dian Defaulte		General Settings Grid Settings
Plan Defaults		IGNO Sellings
		Allowed Angles
COMPETENCY AREA	LIBRAE	Allowed Angles
COMPETENCY AREA		Allowed Angles RY/PROJECT BROWSER
COMPETENCY AREA Category	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge
		Allowed Angles RY/PROJECT BROWSER Knowledge
l	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images
Category	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library
l	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search
Category	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries
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Category	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries
Category Library Browser Project Browser	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser
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Category Library Browser Project Browser	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol
Category Library Browser Project Browser	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings
Category Library Browser Project Browser Symbol Importing	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol
Category Library Browser Project Browser Symbol Importing	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings
Category Library Browser Project Browser Symbol Importing Library Preferences	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu)
Category Library Browser Project Browser Symbol Importing	Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture
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Category Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools	Matrix # 300	Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes
Category Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools COMPETENCY AREA	Matrix # 300	Allowed Angles Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes
Category Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools	WALLS Matrix #	Allowed Angles Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes Knowledge
Category Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools COMPETENCY AREA	WALLS Matrix #	Allowed Angles Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes Knowledge Resize about
Category Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools COMPETENCY AREA	WALLS Matrix #	Allowed Angles Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes Knowledge
Category Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools COMPETENCY AREA	WALLS Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes Knowledge Resize about Show Wall length when editing Auto Rebuild attic walls Default wall type thicknesses
Category Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools COMPETENCY AREA	WALLS Matrix #	Allowed Angles Knowledge Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes Knowledge Resize about Show Wall length when editing Auto Rebuild attic walls Default wall type thicknesses Selecting default interior and exterior wall types
Library Browser Project Browser Symbol Importing Library Preferences Special Use Tools COMPETENCY AREA Category	WALLS Matrix #	Allowed Angles RY/PROJECT BROWSER Knowledge Adding Library Objects Adding Materials, images and Plant images Managing User Library Library Search Adding new libraries Copying items to new libraries Locating Saved Items in Project Browser Symbol Assistant and Import 3D Symbol Reset Library Browser Settings Adjusting appearance and placement Color Chooser Images (Build Menu) pasting images as backdrop, image, material, or picture Plant Chooser Material Painter - Modes Knowledge Resize about Show Wall length when editing Auto Rebuild attic walls Default wall type thicknesses

1		setting pony wall alignment
		Height of lower pony wall
		showing lower pony wall in plan
		Adjusting wall angle and length
		specifying a wall as foundtion or railing effects of selecting various Options
Wall Specifications		double wall options
		specifying radius of curved walls
		adding wall coverings adjusting materials
		aujusting materials
		Defining Wall Types
		Editing Wall types
		Creating New Wall Types Main Layer
Wall Types		Dimension To
		Alignment of pony walls
		Insert and delete layers
		Build platform to
		Edit in 3D
		Wall Edit tools
		Change line/arc
		Reverse Layers Connect Walls
Mall Edition		Input Wall length
Wall Editing		Continuous Wall Drawing
		Make arc tangent Positioning with dimensions
		Hatch Wall
		Edit handles
		Same wall type
		Curved Walls Pony Walls
Special Walls		Railings
İ		Attic Walls
		Room Dividers / Invisible Walls
		Corner boards
Tring To als		Quoins
Trim Tools		Molding line and molding polyline
		3D molding line and 3D molding polyline
COMPETENCY AREA	WINDO	WS / DOORS
<u></u>	Matrix #	Knowledge
Category		Editing Style, appearance and shape
		door types
		Door library
Door Defaults and Specification	<u> </u>	opening indicators swing and handing
		Double Wall options
		Radial Casing
		Labels
		Editing Style, appearance and shape
		window types
		window library
Window Defaults and Specification		opening indicators Double Wall options
	<u> </u>	Default Level - level
		Radial and parallel Casing
		Labels
		Bay-bow-box Windows
Special Applications	 	Corner windows - ignore casing
, , ,		pass-through / niche
Placing		Moving Using Dimensions Centering on Object
		Containing on Object

		Custom Munting
Editing		Custom Muntins Mulled Units
		Automatic
		Manual
Latting		Select Same Type
		Replace from Library
		Add to library
COMPETENCY AREA	CABINE	Te
Category	Matrix #	Knowledge
	600	Editing Style, Components, Shape and Materials
Cabinet defaults and specifications		Special (Cabinet Types)
İ .		Cabinet Library Cabinet Labels
		Capinet Labers
		Base Cabinet
		Wall Cabinets
		Full Height Cabinets Soffits
Cabinet Tools		Shelves
		Partitions
		Custom Countertops
l		Holes in Custom Countertops
		Appliances
Adding Library Objects to Cabinets		Plumbing
		Lighting
COMPETENCY AREA	ROOMS	
Category	Matrix #	Knowledge
Material Defaults and Materials	700	Settings and effect
		Settings and effect
		Room Types
		Floor and Ceiling height
		Room labels - area vs. dimension
Room Definition		No Ceiling
1 TOOM Bellinden		T O . 10
1		Tray Ceilings
		Room polylines
		Room polylines Floor Structure
		Room polylines Floor Structure Moldings
		Room polylines Floor Structure
		Room polylines Floor Structure Moldings Wall Coverings
Polygon shaped room		Room polylines Floor Structure Moldings
		Room polylines Floor Structure Moldings Wall Coverings
Polygon shaped room		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders
		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab)
Polygon shaped room		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab)
Polygon shaped room		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab)
Polygon shaped room		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile
Polygon shaped room		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell
Polygon shaped room Stair Specification and settings		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell
Polygon shaped room		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs
Polygon shaped room Stair Specification and settings		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads
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Polygon shaped room Stair Specification and settings		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads
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Polygon shaped room Stair Specification and settings		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs
Polygon shaped room Stair Specification and settings Stair Editing Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs
Polygon shaped room Stair Specification and settings		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs
Polygon shaped room Stair Specification and settings Stair Editing Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked
Polygon shaped room Stair Specification and settings Stair Editing Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked Custom shaped landings
Polygon shaped room Stair Specification and settings Stair Editing Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked
Polygon shaped room Stair Specification and settings Stair Editing Tools Stair Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked Custom shaped landings stair sections
Polygon shaped room Stair Specification and settings Stair Editing Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked Custom shaped landings stair sections Ability to use the Space Planner Assistant
Polygon shaped room Stair Specification and settings Stair Editing Tools Stair Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked Custom shaped landings stair sections
Polygon shaped room Stair Specification and settings Stair Editing Tools Stair Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked Custom shaped landings stair sections Ability to use the Space Planner Assistant Use of room boxes
Polygon shaped room Stair Specification and settings Stair Editing Tools Stair Tools		Room polylines Floor Structure Moldings Wall Coverings creating different sized and shaped polygon rooms Adjusting riser height winders Adjusting appearance and structure (Style tab) Adjusting balusters and newels (Newels/Balusters Tab) Changing handrail profile creating automatic stairwell manually created stairwell flaring stairs adding starter treads Walk line and subsection boundaries room underneath a stair curved stairs one click manually curving wrapped stairs click stairs adding landings - locked / unlocked Custom shaped landings stair sections Ability to use the Space Planner Assistant

		Library
COMPETENCY AREA	FOUND	ATIONS
Category	Matrix #	
	800	Settings and effect
		Derive from first floor
		stem wall with footing Monolithic Slab
Foundation Defaults		Piers
		Drawing manually
		Stem wall and footing alignment
		Room specification effects on foundations slabs and slab tools
		editing piers and pads
		Santing prote and pade
COMPETENCY AREA	DIMEN	SIONS
Category	Matrix #	
Outegory		"Show" setting effects
		Inaccurate Dimension uses
D: : D ()		Height and sizing
Dimension Defaults		Reach and Seperation settings
		Locate Object Settings Extension Settings
		Font and Layer Settings
		Manual Dimension
		End To End Dimension
		Angular Dimension
Manual Dimension Tools		Interior Dimension Point to Point Dimension
		Baseline Dimension
		Running Dimensions
		Centerline Dimensioni
		Auto Exterior Dimensions
		Auto Interior Dimensions
Automatic Dimension Tools		NKBA Auto Dimensions
7.000000		Auto Elevation Dimensions
		NKBA Auto Elevation Dimensions
		Auto Story Pole Dimensions
		Displaying
Temporary Dimensions		Displaying Setting Preferences
		County 1 10101011000
OMPETENCY AREA	FRAMI	NG
Category	Matrix #	Knowledge
Jalegory		Sub floor structure
	1.000	lap or butt
		Blocking / bridging
		Use Framing reference
		Use Wall Framing Material
_	-	Build wall framing details from exterior Top Plates / Bottom Plates
Framing Defaults		Mitre ends of angled walls
		Trimmers
		Header sizes
		Post and Beam defaults
		Roof material and structure settings Angled dormer hole
		Defining Trusses
		Rafter
		Truss
		Kingpost
		End Truss Drop hip truss
		Energy Heel
		Reduce Gable
		Attic Truss
		Sloping Flat Truss

	Force Rebuild
l	Lock truss envelope
Manual Framing tools	No special snapping
	Roof Beam Joists
	Floor/Ceiling Truss
	Floor/Ceiling Hass Floor/Ceiling Beam
	Post with footing - without footing
	Framing reference marker
	Bearing line
	Joist direction line
	Framing Tool (CAD Box tools)
	Wall Bridging tool
	Cross Block and insulation detail tools
	Wall detail and editing members
	Mitering ends with filet tool
Editing Framing	Effect of retain framing setting
	Editing framing members in 3D
	Extend, trim and make fence
COMPETENCY AREA	MULTIPLE FLOORS
Category	Matrix # Knowledge
Category	
	1100 Setting Default for subsequent floors Adding floors
	inserting floors
Floor Defaults and adding Floors	exchanging floors
Tibol Delaults and adding Floors	deleting floors
	copying floors to another floor
	Reference display
	Reference display
COMPETENCY AREA	DECKS
Category	Matrix # Knowledge
	1200 Deck Railings
	Deck Edges
	Deck Planking
Deck Specifications and settings	Deck Joists
l	Deck Support
	Polygon shaped decks
	Multi Level
COMPETENCY AREA	ROOFS
Category	Matrix # Knowledge
	1300 Roof Layers
	Make roof baseline polylines
	Ridge Caps allow low roof planes
	Auto rebuild roofs
	Use existing Roof Baselines
	retain manually drawn roof plane
	retain edited automatic roof planes
	ignore top floor
	trusses (no birdsmouth)
Build Poof Settings and Ontions	
Build Roof Settings and Options	Raise/Lower from Ceiling Height
Build Roof Settings and Options	Raise/Lower from Ceiling Height
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls
Build Roof Settings and Options	Raise/Lower from Ceiling Height
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items)
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items)
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items)
Build Roof Settings and Options	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items) Changing Gutter/Frieze/Shadow Boards Height / Pitch Curved Roofs
	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items) Changing Gutter/Frieze/Shadow Boards Height / Pitch Curved Roofs Baseline Angle
Build Roof Settings and Options Roof Plane Settings	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items) Changing Gutter/Frieze/Shadow Boards Height / Pitch Curved Roofs Baseline Angle Display one floor up/down
	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items) Changing Gutter/Frieze/Shadow Boards Height / Pitch Curved Roofs Baseline Angle Display one floor up/down Locating roof plane intersections
	Raise/Lower from Ceiling Height Same roof height at exterior walls Same height eaves Segment angle at curved wall Minimum alcove Rafter Tails Boxed Eaves Square vs. Plumb cut rafters Fascia Widths Supply (items) Changing Gutter/Frieze/Shadow Boards Height / Pitch Curved Roofs Baseline Angle Display one floor up/down

	Roof Options
Catting Doof Directives in wells	Pitch Options Roof Returns
Setting Roof Directives in walls	second pitch for upper roof plane
	Lower wall type if split by butting roof
	manually drawn roof plane
	manually drawn ceiling planes Truss base
	Gable roof line
	join roof planes
Roof Tools	move to be coplanar
	break line Transform replicate
	skylights
	roof hole
	Gable over door or window
	A 4 5 Fig. 12 Page 14
Dormer Defaults and Dormers	Auto Floating Dormer vs. Auto Dormer Manually drawn dormer
	ivalidary drawn donner
COMPETENCY AREA	CAD TOOLS
Category	Matrix # Knowledge
- attogety	1400 Line length and angle display format
CAD Defaults	Show arc centers and ends
CAD Deliquite	Fill framing members
	use line for framing
	Points -Input point - delete temp points
	Lines - input line - with arrow - Sun angle - north pointer
	Continuious line drawing
	drawing by entering coordinates
	Input CAD Line, End point location - Start Point and Num Style Arcs - with arrow, input arc
	Arc creation modes
0.5.	Input Arc, Direction, Radius, Extension and Num Style
CAD Tools	Cricle - Oval - Elipse
	Boxes/Framing Spline
	Plan Footprint
	Autodetail
	CAD Block Management CAD Detail Management
	CAD detail from view
	CAD to walls
	Copy/Paste Sticky Mode
	Reflect About Object
	Copy/Paste in place
	Transform Replicate
	Multiple copy Setting Primary and secondary offset
	Evenly distribute copies
	Accurate Move
	Make Parallel Selected edge or entire polyline
	Point to point move
	Add to library
	Center Object
	Reflect about object Move To Front of Group
CAD edit tools	Break Line
	Single Click vs double click
	Trim Objects
	Extend Objects Convert to Spline
	Polyline Union, Intersection and Subtraction
	Convert Polyline
	Change Line/Arc Make Fence
	Record Walkthrough Along Path
	Fillet Two Lines
I	Setting Radius

İ		Chamfer line
		Convert Curve to Polyline
		Convert Spline to Polyline
		Advanced Splines
		Coordinate System
		Line Style
		Layer
		Line Color Line Style
		Line Style Line Weight
		Drawing Group
		Bumping
CAD Object Specification		Display options
		Arrow
		Fill Style
		Custom Patterns Polyline Information
		Points
		Sun Angle / North Pointer
		Spline - New Segment Angle
		Text size and scaling
		Inserting a text macro
		rotate text with plan
Text Defaults and specification		preview appearance
settings		Tabs - box - grid Alignment
Settings		Sizing bounding box
		bounding box margins
		Creating Hyperlinks
		Spell check
		Text Line with arrow
		Leader Line
		Callouts label
Text Tools		Options
TOXE TOOLS		Markers
		text
		Marker Types
		Marker Types Pasting Text and tables From other applications
		Marker Types Pasting Text and tables From other applications Object Snaps
Spana		Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps
Snaps		Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps
Snaps		Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing
Snaps		Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps
		Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions
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COMPETENCY AREA Category	TERRA Matrix #	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge
COMPETENCY AREA	TERRA Matrix #	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually
COMPETENCY AREA Category	TERRA Matrix #	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge
COMPETENCY AREA Category Terrain Perimeter	TERRAI Matrix #	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications
COMPETENCY AREA Category	TERRAI Matrix #	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually
COMPETENCY AREA Category Terrain Perimeter	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect
COMPETENCY AREA Category Terrain Perimeter	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications
COMPETENCY AREA Category Terrain Perimeter	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers
COMPETENCY AREA Category Terrain Perimeter	TERRAI Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features
Competency area Category Terrain Perimeter Road, Sidewalk and Driveway	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds
COMPETENCY AREA Category Terrain Perimeter	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features
Competency area Category Terrain Perimeter Road, Sidewalk and Driveway	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features Stepping Stones
Competency area Category Terrain Perimeter Road, Sidewalk and Driveway	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features Stepping Stones Walls and Curbs
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Competency area Category Terrain Perimeter Road, Sidewalk and Driveway	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features Stepping Stones Walls and Curbs Roads and Sidewalks Plants
Competency area Category Terrain Perimeter Road, Sidewalk and Driveway	TERRAI Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features Stepping Stones Walls and Curbs Roads and Sidewalks Plants
COMPETENCY AREA Category Terrain Perimeter Road, Sidewalk and Driveway Terrain Tools COMPETENCY AREA	TERRA Matrix # 15800	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features Stepping Stones Walls and Curbs Roads and Sidewalks Plants Sprinklers AS AND 3D SETTINGS
COMPETENCY AREA Category Terrain Perimeter Road, Sidewalk and Driveway Terrain Tools COMPETENCY AREA Category	TERRA Matrix # 15800 CAMER Matrix #	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features Stepping Stones Walls and Curbs Roads and Sidewalks Plants Sprinklers EAS AND 3D SETTINGS Knowledge
COMPETENCY AREA Category Terrain Perimeter Road, Sidewalk and Driveway Terrain Tools COMPETENCY AREA	TERRA Matrix # 15800 CAMER Matrix #	Marker Types Pasting Text and tables From other applications Object Snaps Angle Snaps Grid Snaps Bumping / Pushing Extensions IN Knowledge creating automatically and manually Terrain Specifications Settings and effect Building and clearing Terrain Elevation data Terrain Modifiers Terrain Features Garden Beds Water Features Stepping Stones Walls and Curbs Roads and Sidewalks Plants Sprinklers AS AND 3D SETTINGS

I	General Options
3D Settings	Render view options
	Vector view options Backdrops
	Васкигора
	Full and Floor Camera
Outh a superbia Miana Ta ala	Overview Cameras
Orthographic View Tools	Cross Section and Elevation Cameras
	Framing Overview
	Full and Floor Cameras Overview Cameras
Perspective View Tools	Render View Options
	Adjusting Lighting
	Ray trace view settings
Camera Navigation tools	Mouse, Keyboard and slider tools
Camera rangalish toolo	Walkthrough along Path
	LAYEDO (LAYED OFFO
COMPETENCY AREA	LAYERS / LAYER SETS
Category	Matrix # Knowledge
	1700 Layer Set Defaults
	Active layer set control Layer set management
	Layer Dianley Ontions
Layer Set Defaults and Management	Export / Import layer sets
	Layer Painter
	Active CAD Layer
	Creating New layers and layer sets
	Annotation Sets
	LAVOUT
COMPETENCY AREA	LAYOUT
Category	Matrix # Knowledge
Layout Templates	1800 Creating Layout Template
	Nucleo Con In Laurent
Layout Tools	Navigation In layout Modifying layout pages
Layout 100is	Managing Layout Files
	Scaling
Sending Views To Layout	View and layer set options
	Sending Camera Views
	Project Information
Editing Layouts	Using CAD and Text in Layout
	Sing of the sine is on the Layout
COMPETENCY AREA	PRINTING
Category	Matrix # Knowledge
Category	1900 printer paper and drawing sheet relationship
	default printer setup
Page Setup	correct drawing scale - layout vs. plan
l ago cotap	line weight scaling function
	Changing and config of printers
Scale to fit	Changing and config of printers create custom drawing sheet
Scale to fit	Changing and config of printers
Scale to fit Center Sheet	Changing and config of printers create custom drawing sheet
Center Sheet	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet
	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet
Center Sheet	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview
Center Sheet	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range
Center Sheet Print Preview	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range using scaling
Center Sheet	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range
Center Sheet Print Preview	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range using scaling using check plot
Center Sheet Print Preview	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range using scaling using check plot printing an image
Center Sheet Print Preview	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range using scaling using check plot printing an image
Center Sheet Print Preview Print Dialog COMPETENCY AREA	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range using scaling using check plot printing an image printing a model ELECTRICAL
Center Sheet Print Preview Print Dialog	Changing and config of printers create custom drawing sheet Scaling a drawing to fit on specific sheet centering a drawing on a specific sheet using print preview using print range using scaling using check plot printing an image printing a model ELECTRICAL

Electrical Defaults	2000	Setting Default items for each tool/location
Electrical Tools		Outlets
		Lights
Electrical Loois		Switches Electrical Connections
		Auto Place Outlets
		Auto Flace Ouliets
		Editing Symbol Data
Electrical Library		Creating and editing 2D blocks
Electrical Library		Editing Stretch Zones
		Editing Component Information
COMPETENCY AREA	IMPOR	T / EXPORT
Category	Matrix #	Knowledge
		Drawing
		Selecting file, objects, CAD blocks and Hatch entities
		Selecting layers to import
		Mapping layers
		Drawing unit
		Unit conversions (Preferences)
	—	Pictures, Metafiles and Backdrops Room Planner files
Import		Wall Definitions
		Line Style Definitions
		Layer Sets
		Terrain Data
		GPS Data
		Hotkeys
		Annotation Sets
		Default Settings
		Entire Plan
		Current View All Floors
		3D Model - DWG, DXF, 3DS, STL, DAE
		REScheck
From a mation or		VRML
Exporting		Pictures, Metafiles
		Wall Definitions
		Layer Sets
		Hotkeys
		Annotation Sets 3D Viewer Files
		3D Viewer Files
		Screen Capture - 3D views
Special Use Tools	-	Copy Region as Picture - 2D views
		Copy region de l'iolaire 22 mine
COMPETENCY AREA	MATER	IALS LIST
Category	Matrix #	Knowledge
Category		Calculate from all floors
	2200	Calculate from Area
Material List Types		Calculate From Room
		Materials Polyline
		Update To Master
Material List Tools		Update From Master
		Export Material List
Schedule Defaults		Setup columns and objects to include
		Labels
	TF 4::-	
COMPETENCY AREA		LESHOOTING USER ERRORS
Category	Matrix #	Knowledge
Walls	2300	Main layer effect on framing
CAD Blocks		X Y Scaling
Windows/doors	1	Changing the Default level effect
CAD	1	Layer effect on lines in a polyline
<u> </u>	1	, ry
	1	
	1	
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