#### COMPETENCY ANALYSIS PROFILE Horticultural Technician – 441C

(All unshaded skill sets must be demonstrated/completed)

#### SKILL SETS

#### **SKILLS**

PROTECT SELF AND OTHERS	Comply with federal and provincial legislation and regulations and municipal by-laws	Select, adjust, maintain and wear required eye protection	Select, adjust, maintain and wear required head protection	Select, adjust, maintain and wear required hearing protection	Select, adjust, maintain and wear required hand protection
U6621.0	U6621.01	U6621.02	U6621.03	U6621.04	U6621.05
Select, adjust, maintain and wear required clothing	Select, adjust, maintain and wear required foot protection	Control pedestrian and vehicular traffic	Lift and carry tools, equipment and materials	Mount and dismount equipment	Work around operating equipment
U6621.06	U6621.07	U6621.08	U6621.09	U6621.10	U6621.11
Identify impact of climatic extremes of wind, temperature and precipitation	Select a stable ground position	Work around energy sources	Locate all utilities	Identify, store/ dispose of all hazardous job materials	Respond to job- site emergencies
U6621.12	U6621.13	U6621.14	U6621.15	U6621.16	U6621.17
COMMUNICATE	Write job	Interpret job	Listen to job	Speak to	Solve problems

COMMUNICATE IN THE WORKPLACE	Write job documents in clear, concise, coherent and correct manner	Interpret job documents	Listen to job instructions and customer queries	Speak to supervisors, co- workers and customers in clear, concise, coherent and correct manner	Solve problems
U6622.0	U6622.01	U6622.02	U6622.03	U6622.04	U6622.05
Work as a team	Develop personal and work-related goals	Work in a responsible manner			
U6622.06	U6622.07	U6622.08			

CONTROL PLANT PESTS AND DISORDERS	Identify pest or disorder	Determine plant health requirements	Select treatment methods	Implement treatment methods	Determine use of regulated control materials
U6623.0	U6623.01	U6623.02	U6623.03	U6623.04	U6623.05
Mix regulated control materials and calibrate equipment	Apply selected treatment	Maintain application equipment	Store/dispose of regulated control materials and container	Maintain and update logs	Monitor effectiveness of cultural controls and treatment
U6623.06	U6623.07	U6623.08	U6623.09	U6623.10	U6623.11
Wash hands and launder clothing	Wear protective clothing and equipment,				
U6623.12	U6623.13				

TRANSPLANT/ INSTALL PLANT MATERIALS	Conduct on-site inspection	Select plant materials to be installed	Select method for digging plant materials	Select tools and equipment	Dig plant material
U6624.0	U6624.01	U6624.02	U6624.03	U6624.04	U6624.05
Prepare plant material for relocation	Load and secure plant material for transport	Store plant material	Identify planting locations	Select equipment, tools and supplies	Select soil amendments
U6624.06	U6624.07	U6624.08	U6624.09	U6624.10	U6624.11
Prepare transplant site	Verify plants for installation	Install plant materials	Perform plant aftercare	Dispose of or recycle excess materials	Maintain equipment
U6624.12	U6624.13	U6624.14	U6624.15	U6624.16	U6624.17

MANAGE GARDENS AND GROUNDS	Select tools and equipment	Prepare planting beds	Plant/transplant annuals, perennials and ground covers	Apply fertilizer and/or water plant material	Maintain gardens
U6625.0	U6625.01	U6625.02	U6625.03	U6625.04	U6625.05
Determine water and fertilizer needs	Prune plant	Prepare gardens for winter	Maintain hard surfaces	Dispose of or recycle excess materials	Maintain equipment
U6625.06	U6625.07	U6625.08	U6625.09	U6625.10	U6625.11
APPLY FERTILIZERS	Identify nutrient requirements	Select fertilizer type and formulation	Select application method	Apply selected formulation	Maintain application equipment
U6626.0	U6626.01	U6626.02	U6626.03	U6626.04	U6626.05
Inspect and record condition of plants and surroundings	Store/dispose of fertilizers/containers	Maintain and update records			
U6626.06	U6626.07	U6626.08			
IRRIGATE PLANTS	Determine system design, capacity and water quality	Establish irrigation rate, method and schedule	Water plants	Maintain irrigation equipment	Program/operate control systems
U6627.0	U6627.01	U6627.02	U6627.03	U6627.04	U6627.05
	Perform start-up in	Maintain clear and	2 3 2 - 1 3 2		
Troubleshoot and affect repair to an in-ground irrigation system	the Spring and shut-down in the Fall	concise records			

PROPAGATE					
PROPAGATE	Select stock plants	Select required	Prepare	Collect and	Place propagule
PLANTS		propagation	propagation area	prepare	into required
		technique	and growing	propagation	environment
			medium	materials	
U6628.0	U6628.01	U6628.02	U6628.03	U6628.04	U6628.05
Maintain	Condition plants	Dispose of or	Maintain		0.000000
propagation	for growing-on	recycle excess	propagation		
environment		materials	records		
U6628.06	U6628.07	U6628.08	U6628.09		
00028.00	00020.07	00020.00	00020.03		
PRODUCE	Dronoro gravina	Select	Dronovo nlanta for	Install plantints	Maintain antimum
PLANTS	Prepare growing media/field	container/field	Prepare plants for potting or planting	Install plant into growing medium	Maintain optimum growing
ILANIS	planting site	production site	potting of planting	growing medium	conditions
	planting site	production site			conditions
U6629.0	U6629.01	U6629.02	U6629.03	U6629.04	U6629.05
Harvest and grade	Place plants in	Dispose of or	Maintain		
plants	holding	recycle excess	production records		
	environment	materials			
U6629.06	U6629.07	U6629.08	U6629.09		
	1			1	
DDINE	Identify plants	Select pruning	Remove plant	Isolate and dispose	Dispose of or
TKUNE					
PRUNE PLANTS	identity plants		parts	of contaminated	compost non-
	racinity plants	method and timing	parts	of contaminated plant parts	compost non- contaminated plant
	racinity plants		parts	of contaminated plant parts	
	identity plants		parts		contaminated plant
PRUNE PLANTS	identity plants		parts		contaminated plant
PLANTS		method and timing		plant parts	contaminated plant parts
PLANTS  U6630.0	U6630.01		parts  U6630.03		contaminated plant
PLANTS  U6630.0  Maintain		method and timing		plant parts	contaminated plant parts
PLANTS U6630.0		method and timing		plant parts	contaminated plant parts
PLANTS  U6630.0  Maintain		method and timing		plant parts	contaminated plant parts
PLANTS  U6630.0  Maintain		method and timing		plant parts	contaminated plant parts
U6630.0  Maintain equipment		method and timing		plant parts	contaminated plant parts
PLANTS  U6630.0  Maintain		method and timing		plant parts	contaminated plant parts
U6630.0  Maintain equipment		method and timing		plant parts	contaminated plant parts

ESTABLISH TURFGRASS	Analyze turfgrass site	Analyze growing medium	Determine turf species for the site	Layout site and set grades	Rough grade site
			and purpose		
U6631.0	U6631.01	U6631.02	U6631.03	U6631.04	U6631.05
Amend growing medium	Fine-grade site	Apply seed mix and mulch	Roll seed	Protect seeded areas	Install sod
U6631.06	U6631.07	U6631.08	U6631.09	U6631.10	U6631.11
Roll sod	Irrigate turfgrass	Dispose or compost excess materials	Maintain installation and or irrigation records		
U6631.12	U6631.13	U6631.14	U6631.15		

MOW TURFGRASS	Assess turfgrass	Select and adjust equipment	Determine mowing pattern and/or procedure	Prepare mowing site	Cut and trim turfgrass
U6632.0	U6632.01	U6632.02	U6632.03	U6632.04	U6632.05
Determine height and frequency of cut	Trim edges of turfgrass areas	Collect and dispose of or compost turfgrass clippings	Conduct final inspection	Monitor turfgrass quality	Maintain equipment
U6632.06	U6632.07	U6632.08	U6632.09	U6632.10	U6632.11
Maintain records					
U6632.12					

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CULTIVATE	Assess turfgrass	Select and adjust	Aerate turfgrass	Apply top-	Dethatch turfgrass
TURFGRASS	condition	equipment/tools		dressing materials	
				and turf seed	
U6633.0	U6633.01	U6633.02	U6633.03	U6633.04	U6633.05
Overseed turfgrass	Clean cultivated	Dispose or	Irrigate turfgrass	Monitor turfgrass	Maintain records
Overseed turigruss	area	compost excess	inigate tungruss	quality	Wantam records
	arca	materials		quanty	
		materiais			
TIC (22 0 C	T1//22 05	116622.00	TICC22.00	TICC22 10	TIC(22 11
U6633.06	U6633.07	U6633.08	U6633.09	U6633.10	U6633.11
T-					
INSTALL	Determine scope	Lay out site	Select tools and	Verify materials	Prepare sub-grade
HORIZONTAL	of work and		equipment		and base materials
NATURAL/PRE	prepare take off of				
CAST STONE	quantities of				
SURFACES	materials and				
	equipment				
	required				
U6634.0	U6634.01	U6634.02	U6634.03	U6634.04	U6634.05
Compact sub-	Install edging	Prepare stone	Mix mortar	Place	Cut stone
grade and base	mistan caging	Trepure stone	WIIX MOTUL	natural/precast	Cut stone
materials				stone in a wet or	
materials				dry application	
				dry application	
6634.06	U6634.07	U6634.08	U6634.09	U6634.10	U6634.11
Fill joints	Compact precast	Clean and finish	Dispose of or	Maintain	00034.11
Till joints	stone in dry	stone surface	recycle waste	equipment	
		Stolle Sulface	materials	equipment	
	application		materiais		
TTC (0.4.40	T1// (24.42	*******	T1///04 4 P	**********	
U6634.12	U6634.13	U6634.14	U6634.15	U6634.16	
DED TO THE TOTAL OF THE TOTAL O	I			T	
PERFORM WOOD	Determine scope	Lay out site	Select tools and	Verify materials	Prepare wood
CONSTRUCTION	of work and		equipment		
	prepare take off of				
	quantities of				
	materials and				
	equipment				
	required				
	1				
U6635.0	U6635.01	U6635.02	U6635.03	U6635.04	U6635.05
Install wood	Finish wood	Dispose of or	Maintain		
mstan wood	surfaces	recycle waste			
	surfaces	materials	equipment		
		materials			
U6635.06	U6635.07	U6635.08	U6635.09		

CONCRETE pre qua ma equ	work and epare take off of antities aterials and uipment quired	Lay out site	Select tools and equipment	Verify materials	Prepare sub-grade and base materials
U6636.0	U6636.01	U6636.02	U6636.03	U6636.04	U6636.05
brace forms win	stall welded re mesh/steel inforcing bars	Prepare concrete	Install expansion joint material	Place concrete	Finish surface, edges and joints
U6636.06	U6636.07	U6636.08	U6636.09	U6636.10	U6636.11
Apply curing Dis	smantle forms d clean job site	Install control joints	Dispose of or recycle waste materials	Maintain equipment	Coossill
U6636.12	U6636.13	U6636.14	U6636.15	U6636.16	
RETAINING of walls pre qua ma equ	etermine scope work and epare take off of antities aterials and uipment	Lay out site	Select tools and equipment	Verify materials	Prepare sub-grade and base materials
	quired	11//27 02	11//27 02	11//27 04	11//27 05
U6637.0 Ins	tall wall	U6637.02 Construct and	U6637.03 Place concrete in	U6637.04 Prepare stone	Mix mortar for
_	aterials	brace forms for concrete	forms	Trepare stone	wet application
U6637.06	U6637.07	U6637.08	U6637.09	U6637.10	U6637.11
Place Cu natural/precast stone in wet or dry application	it stone	Fill joints	Clean and finish stone surface	Remove forms from concrete	Install drainage materials/ components
U6637.12	U6637.13	U6637.14	U6637.15	U6637.16	U6637.17
Backfill retaining Dis	spose or recycle aste materials	Maintain equipment	U0037.13	U0037.10	00037.17
U6637.18	U6637.19	U6637.20			