



ONTARIO COLLEGE OF TRADES

ORDRE DES MÉTIERS DE L'ONTARIO

Apprenticeship
Training Standard

Arborist

Trade Code: 444A

Development Date: November 2007

Please Note: Apprenticeship Training and Curriculum Standards were developed by the Ministry of Training, Colleges and Universities (MTCU). As of April 8th, 2013, the Ontario College of Trades (College) has become responsible for the development and maintenance of these standards. The College is carrying over existing standards without any changes.

However, because the Apprenticeship Training and Curriculum Standards documents were developed under either the *Trades Qualification and Apprenticeship Act* (TQAA) or the *Apprenticeship and Certification Act, 1998* (ACA), the definitions contained in these documents may no longer be accurate and may not be reflective of the *Ontario College of Trades and Apprenticeship Act, 2009* (OCTAA) as the new trades legislation in the province. The College will update these definitions in the future.

Meanwhile, please refer to the College's website (<http://www.collegeoftrades.ca>) for the most accurate and up-to-date information about the College. For information on OCTAA and its regulations, please visit: <http://www.collegeoftrades.ca/about/legislation-and-regulations>

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APPRENTICESHIP PROGRAM SUMMARY/GUIDELINES

1. **Program Definition:** **Arborist** is defined as a person who,

- plans job
- removes woody plants
- climbs trees and work at heights
- prunes woody plants
- manages wounds and defects of woody plants
- manages pests, diseases and /or disorders
- transplants woody plants
- maintains and operates chainsaw
- maintains and operate chipper
- hoist and rig trees

ARBORIST is an approved apprenticeship program for the purposes of the *Apprenticeship and Certification Act, 1998 (ACA)*.

2. **Program Guidelines**

- **On-The-Job Train Duration (*for apprentices*)**

The Industry Committee has identified 5 400 hours as the duration generally necessary for any apprentice to become competent in the skills required. There may be individual circumstances where the duration varies from this guideline.

- **In-School Training Duration**

The Industry Committee has identified **660** hours of in-school training as the duration generally necessary for an apprentice to complete the in-school curriculum for this program, except where an apprentice has been exempted from any level of that curriculum.

- **Ratio**

The Industry Committee has identified a journeyperson-to-apprentice ratio of one journeyperson or individuals who are deemed equivalent to a journeyperson status to one apprentice as the ratio generally necessary for an apprentice to be properly trained on the job in this program. There may be individual circumstances where the ratio varies from this guideline.

3. **Program Requirements**

- **Restricted Skill Sets**
- This program does not contain any restricted skill sets as per Ontario Regulation 565/99, Restricted Skill Sets. Therefore, an individual is not required to be registered apprentice or possess certification in order to perform skills contained in the program.
- **Academic Standard**
- The Industry Committee has identified the minimum academic standard for entry to this program as completion of Grade 12 or ministry-approved equivalent.
- (See ACA Policy 102, Confirming Academic Requirements)
- **Eligibility for Exam Challenge (*for Non-apprentice C of Q Applicants*)**
The challenger must:
 - provide proof of competency in all mandatory (unshaded) skills as identified in the Training Standard or Schedule of Training; and
 - demonstrate that he/she has acquired **6000** hours of on-the-job training.

(See ACA Policy 150, Assessing Applicants for the Certificate of Qualification)

- **Eligibility for Program Completion (*for Apprentices*)**
The apprentice must:
 - achieve competency in all mandatory (unshaded) skills as identified in the Training Standard or Schedule of Training.
 - complete the in-school training as outlined in the industry and ministry-approved Curriculum Standard.

(ACA Policy 309, Completion of an Apprenticeship Program)

- **Other Information**
- **Other Resources**
Complete program requirements, policies, and standards can be obtained by referring to the following resources:
 - *Apprenticeship and Certification Act, 1998 (ACA)*;
 - ACA General Regulation 573/99;
 - ACA Exemption Regulation 566/99;
 - Program-specific Apprenticeship Training Standards or Schedules of Training; and
 - ACA Program and Policy Manual
- **Other Required Certification**
N/A

COMPETENCY ANALYSIS PROFILE
Arborist – 444A

(All unshaded skill sets must be demonstrated/completed)

SKILL SETS**SKILLS**

PROTECT SELF AND OTHERS 7175.0	Comply with federal, provincial and municipal legislation and regulations 7175.01	Select, adjust, maintain and wear appropriate eye protection 7175.02	Select, adjust, maintain and wear appropriate face protection 7175.03	Select, adjust, maintain and wear appropriate head protection 7175.04	Select, adjust, maintain and wear appropriate hearing protection 7175.05
	Select, maintain and wear appropriate hand protection 7175.06	Select, adjust, maintain and wear appropriate foot protection 7175.07	Select, adjust, maintain and wear appropriate chainsaw safety pants or chaps 7175.08	Select, adjust, maintain and wear work positioning system 7175.09	Mount and dismount equipment 7175.10
	Select, inspect and use hand tools and tree maintenance equipment 7175.11	Handle and carry tree maintenance equipment 7175.12	Identify hazards 7175.13		

WORK IN A SAFE ENVIRONMENT 7176.0	Identify climatic extremes of wind, lightening, temperature and precipitation 7176.01	Identify potential hazards in trees 7176.02	Identify potential hazards in adjacent trees 7176.03	Identify unstable ground conditions 7176.04	Identify overhead utility apparatus 7176.05
	Identify underground utility apparatus 7176.06	Identify electrical hazards 7176.07	Establish barriers to all overhead energized electrical apparatus in proximity to woody plants 7176.08	Establish barriers to all underground utilities 7176.09	Identify handling, storage and material disposal hazards 7176.10
	Follow required fire procedures 7176.11	Communicate on the worksite 7176.12	Identify potential public hazards 7176.13	Monitor worksite conditions 7176.14	

SKILL SETS

SKILLS

CLIMB TREES AND WORK AT HEIGHTS 7179.0	Select, inspect and maintain conventional fall protection systems	Select, inspect and maintain split tail fall protection	Wear and adjust conventional fall protection systems	Wear and adjust split tail fall protection systems	Tie, dress and set friction knots
	7179.01	7179.02	7179.03	7179.04	7179.05
	Tie, dress and set termination knots	Inspect tree	Select and assess interim anchor points	Select and assess final anchor points	Place climbing rope into interim anchor location
	7179.06	7179.07	7179.08	7179.09	7179.10
	Ascend trees without spurs	Ascend trees with spurs	Reposition climbing line	Secure self at work location	Select, inspect and maintain tree rigging equipment
	7179.11	7179.12	7179.13	7179.14	7179.15
Raise, lower and secure tools and equipment	Operate tree pruning tools aloft	Control movement of cut limbs and trunk sections	Control movement of cut limbs and trunk sections	Inspect tree	
7179.16	7179.17	7179.18	7179.19	7179.20	
Descend tree with spurs	Descend tree without spurs	Respond to emergency situation	Perform aerial rescue		
7179.21	7179.22	7179.23	7179.24		

PRUNE WOODY PLANTS 7180.0	Identify woody plants to be pruned	Select pruning methods	Select tools and equipment	Inspect tools and equipment	Remove unwanted limbs and branches
	7180.01	7180.02	7180.03	7180.04	7180.05
	Inspect woody plant	Clean up debris	Maintain and store tools and equipment		
	7180.06	7180.07	7180.08		

SKILL SETS

SKILLS

MANAGE WOUNDS AND DEFECTS OF WOODY PLANTS 7181.0	Identify subject woody plants	Identify wounds and defects	Select treatment method	Select tools, equipment and materials	Inspect tools, equipment and materials
	7181.01	7181.02	7181.03	7181.04	7181.05
	Install flexible bracing systems	Install rigid bracing systems	Perform bark tracing	Treat cavities in woody plants	Install drains in woody plants
7181.06	7181.07	7181.08	7181.09	7181.10	
7181.11	Treat damaged or girdling roots on woody plants	Maintain and store tools and equipment			
7181.12					

MANAGE PESTS, DISEASES AND/OR DISORDERS 7182.0	Determine normal growth characteristics, normal appearance and common problems of subject woody plants	Identify potential sources of stress	Identify symptoms of abnormal growth	Collect, analyse and interpret soil and plant tissue samples	Diagnose woody plant problems
	7182.01	7182.02	7182.03	7182.04	7182.05
	Select tools, equipment and materials	Inspect tools, equipment and materials	Select fertilizer and soil amendments	Select fertilizer application and soil amendments application methods	Apply fertilizers and soil amendments
	7182.06	7182.07	7182.08	7182.09	7182.10
7182.11	Aerate soil	Irrigate soil	Apply biological control methods	Apply mulches	Perform selective pruning /removal
7182.12			7182.13	7182.14	7182.15
7182.16	Evaluate effectiveness of treatments	Maintain and store tools and equipment			
7182.17					

SKILL SETS

SKILLS

TRANSPLANT WOODY PLANTS 7183.0	Inspect nursery stock 7183.01	Select tools, equipment and materials 7183.02	Inspect tools and equipment 7183.03	Dig woody plants, 7183.04	Handle, load and protect nursery stock for transport and interim storage 7183.05
	Prepare planting site 7183.06	Install woody plant material 7183.07	Install anchor systems 7183.08	Apply mulch over root zone 7183.09	Perform follow-up maintenance 7183.10
	Maintain and store tools and equipment 7183.11				
MAINTAIN AND OPERATE CHAINSAW 7184.0	Select, adjust, maintain and wear appropriate chainsaw safety pants or chaps 7184.01	Handle and carry chainsaw in a safe manner 7184.02	Clean and lubricate chainsaws 7184.03	Service bars 7184.04	Perform routine repair and maintenance of chainsaws 7184.05
	Sharpen chains 7184.06	Refill fuel and chain lubricant reservoirs 7184.07	Adjust chain tension 7184.08	Start and stop chainsaws 7184.09	Set engine idle speed 7184.10
	Check chain brake function 7184.11	Test chainsaw operation 7184.12	Buck and limb felled trees 7184.13		

SKILLSETS

SKILLS

MAINTAIN AND OPERATE CHIPPER 7185.0	Secure chipper for transportation	Conduct pre-operational checks	Set up and start up chipper	Conduct operational checks	Feed chipper
	7185.01	7185.02	7185.03	7185.04	7185.05
	Shut down chipper	Perform emergency shut down	Store chipper	Perform preventative maintenance	
	7185.06	7185.07	7185.08	7185.09	

HOIST AND RIG TREES 7186.0	Interpret worksite documentation	Inspect work site access	Calculate weight and determine balance point	Establish job plan	Communicate job plan to all personnel
	7186.01	7186.02	7186.03	7186.04	7186.05
	Establish barriers	Select and inspect rigging equipment	Maintain communications with crane operator	Determine choker locations	Ascend tree
	7186.06	7186.07	7186.08	7186.09	7186.10
	Assess choker location(s) for defects	Connect slings and hardware to attachment point and hook of crane	Signal crane operator	Inspect rigging system	Position self to the planned cutting location
	7186.11	7186.12	7186.13	7186.14	7186.15
Remove obstructing branches	Communicate with crane operator	Perform cutting sequence	Signal crane operator	Position and secure load	
7186.16	7186.17	7186.18	7186.19	7186.20	
Maintain and store rigging equipment					
7186.21					

PREFACE

This training standard was developed by the Ministry of Training, Colleges, and Universities (MTCU), in partnership with the Industry Advisory and in consultation with representatives from the industry. This document is intended to be used by apprentice, supervisor/trainer and sponsor/employer as a "blueprint" for training and as a prerequisite for completion and certification.

This training document becomes the apprentice's only record of workplace training performance. Supervisor/trainer and apprentice are required to sign off and date the skills following each successful acquisition, unless a skill is marked shaded (optional).

The care and maintenance of this training document are the joint responsibility of the apprentice and the sponsor/employer. By signing off the skill, the supervisor/trainer and the apprentice are indicating that the apprentice has demonstrated competence of the skill.

This training standard has been developed specifically for documenting the apprentice's acquisition of skills of the trade.

DEFINITIONS**ACA**

Apprenticeship and Certification Act, 1998

Certificate of Apprenticeship (CofA)

Certification issued to individuals who have demonstrated that they have completed an apprenticeship in Ontario.

Certificate of Qualification (CofQ)

Certification issued to C of Q applicants who have achieved a passing grade on the certification exam for their trade.

Competency Analysis Profile

A document that identifies the training needs of an individual trade and details the skills/skill sets that must be demonstrated.

Competence

The ability of an individual to perform a skill repeatedly and without assistance in the workplace to the standard set out in the Training Standard or Schedule of Training.

General Performance Objective (On-the-job Skill Set)

A set of skills which include all performance objectives under that skill set.

Industry Committee (IC) - under the ACA and Provincial Advisory Committee (PAC) under the TQAA

Under the ACA and TQAA, the Minister may appoint a provincial committee in any trade or group of trades to advise the Minister in matters relating to the establishment and operation of apprenticeship training programs and trades qualifications.

Journeyman or Equivalent

A person who has acquired the knowledge and skills in a trade, occupation or craft as attested to by a provincial or territorial authority.

Mandatory

Status assigned to unshaded individual skills, skill sets or general performance objective which must be signed off for the apprentice to complete their program.

Optional

Status assigned to shaded individual skills, skills sets or general performance objective for which sign-off is not required for the apprentice to complete the program.

Sign-off

Signature of the sponsor/employer of record or an individual to whom that sponsor or employer has delegated signing authority, indicating an apprentice's achievement of competence.

Skill

Individual skill described in the Training Standard (note: does not mean the larger skill groups referred to in the Training Standard as Skill Sets, Training Units, or General Performance Objective, but the individual skills that make up those groups).

Skill Sets

Group of individual skills found in the Training Standard (may also be called Training Unit or General Performance Objective)

Skill Set Completion Form

Lists all skill sets and includes space for sign-off by sponsor/employer of record.

Sponsor/Employer

Means a person that has entered into a registered training agreement under which the person is required to ensure that an individual is provided with workplace-based training in a trade, other occupation or skill set as part of an apprenticeship program approved by the Director.

Sponsor/Employer of Record

Refers to the sponsor or employer documented as the signatory to the current training agreement or contract. In order for an sponsor/employer to be considered for the training of apprentices, they must identify that the workplace has qualified journeypersons or equivalent on site and can identify that the workplace has the tools, equipment, materials, and processes which have been identified by Provincial Advisory Committees (PACs) or Industry Committees (ICs) to be required for the trade.

Supervisor

An individual who oversees the execution of a task or oversees the actions or work of others.

Trainer

A qualified trainer in a compulsory trade is a journeyperson with a Certificate of Qualification or in a voluntary trade is an individual who is considered equivalent to a journeyperson with a Certificate of Qualification.

TQAA

Trades Qualification and Apprenticeship Act.

Training Standard

A document that has been written in concise statements, which describe how well an apprentice must perform each skill in order to become competent. In using the document, trainers will be able to ensure that the apprentice is developing skills detailed for the occupation.

IMPORTANT DIRECTIONS**Apprentice**

1. All complete skills or skill sets must be signed and dated by both the apprentice and sponsor/employer when either all terms of the contract have been completed or the apprentice leaves the employ of the employer.
2. It is the responsibility of the apprentice to inform the local Apprenticeship Client Services Office regarding the following changes:
 - change of sponsor/employer address;
 - change of apprentice name or address;
 - transfer to a new sponsor/employer.
3. The Skill Set Completion Form must be completed and signed by the current sponsor/employer and presented to the local Apprenticeship Client Services Office at the fulfillment of all terms of a Contract of Apprenticeship/Training Agreement.
4. The apprentice completion form with the Completed and Authorized Training Standard must be presented to the local Apprenticeship Client Services Unit.

Sponsors/Employers and Supervisors/Trainers

The Training Standard identifies skills required for this trade/occupation and its related training program.

This Training Standard has been written in concise statements which describe how an apprentice must perform each skill in order to become competent. Competence means being able to perform the task to the required standard.

In using this Training Standard, supervisors/trainers will be able to ensure that the apprentice is developing the skills detailed for the trade/occupation.

Supervisors/Trainers and apprentices are required to sign off and date the skills following each successful acquisition.

Sponsors/Employers participating in this training program will be designated as the Signing Authority and are required to attest to successful achievement by signing the appropriate box included at the end of each skill set.

NOTICE OF COLLECTION OF PERSONAL INFORMATION

1. At any time during your apprenticeship training, you may be required to show this training standard to the Ministry of Training, Colleges and Universities (the Ministry). You will be required to disclose the signed Apprenticeship Completion form to the Ministry in order to complete your program. The Ministry will use your personal information to administer and finance Ontario's apprenticeship training system, including confirming your completion and issuing your certificate of apprenticeship.
2. The Ministry will disclose information about your program completion and your certificate of apprenticeship to the Ontario College of Trades, as it is necessary for the College to carry out its responsibilities.
3. Your personal information is collected, used and disclosed by the Ministry under the authority of the Ontario College of Trades and Apprenticeship Act, 2009.
4. Questions about the collection, use and disclosure of your personal information by the Ministry may be addressed to the:

Manager, Employment Ontario Contact Centre
Ministry of Training, Colleges and Universities
33 Bloor St. E, 2nd floor, Toronto, Ontario M7A 2S3
Toll-free: 1-800-387-5656; Toronto: 416-326-5656
TTY: 1-866-533-6339 or 416-325-4084.

ROLES & RESPONSIBILITIES OF APPRENTICE, SPONSOR/EMPLOYER AND SUPERVISOR/TRAINER

Apprentice “Apprenticeship is Learning On-the-job”

- Practice safe work habits.
- Use your apprenticeship training standard as a journal to keep track of which skills you have achieved.
- Talk over your training plan with your Training Consultant, Employer, Union, or Sponsor.
- Know what tools are required for your trade and how to use them.
- Ask questions and keep asking.
- Talk to your employer about your training needs.
- Demonstrate enthusiasm and good work habits.
- Ensure that you and your supervisor/trainer sign off skill/skill sets upon demonstration of competency.

Sponsor/Employer “Training is an Investment”

- Demonstrate safe work habits.
- Attest to successful achievement by signing the skill/skills sets.
- Provide opportunities and time for the apprentice to learn the trade.
- Offer practical trade training experiences that cover all of the skill sets.
- Foster work ethics that support training while minimizing productivity losses.
- Set out clear expectations, then recognize or reward performance excellence.
- Involve both the apprentice and supervisor/trainer in developing the training plan.
- Use the Training Standard as a monitoring tool and part of regular performance evaluations.
- Select supervisors/trainers with good communication skills and who work well with others.
- Encourage supervisors/trainers to take upgrading courses - (e.g. Train the Trainer, Mentor Coach, etc).
- Complete the Skill Set Completion Form once the apprentice has demonstrated competency in the training.
- Ensure that the apprentice always works under the direction of or has access to a qualified supervisor/trainer.
- Vary the apprentice’s exposure to all the skills set out in the training standard.

Supervisor/Trainer

- Demonstrate safe work habits.
- Treat apprentices fairly and with respect.
- Use the Training Standard as a guide to evaluating competence in each skill area. In using the Training Standard, supervisors/trainers will be able to ensure that the apprentice is developing skills detailed for the trade/occupation.
- Review the Training Standard with the apprentice and develop a training plan.
- Respond fully to all questions.
- Be patient. Explain what is to be done then, show how it is done, and then let the apprentice demonstrate the task.
- Provide continuous feedback.
- Sign off individual skills/skill sets once the apprentice demonstrates competence in the skill.

Suggestions for Assessing the Progress of the Apprentice in the Workplace

- Use informal daily observation.
- Provide constructive feedback to build confidence.
- Allow the supervisor/trainer time to teach and demonstrate the skills.
- Take prompt action wherever problems occur.
- Conduct regular performance reviews involving the apprentice, supervisor/trainer and sponsor/employer.
- Use the Training Standard as the reference for establishing the competency of the apprentice.

SKILL SET COMPLETION FORM

SKILLS SETS	TITLE	SIGNING AUTHORITY
U7175.0	PROTECT SELF AND OTHERS	
U7176.0	WORK IN A SAFE ENVIRONMENT	
U7177.0	PLAN JOB	
U7178.0	REMOVE WOODY PLANTS	
U7179.0	CLIMB TREES AND WORK AT HEIGHTS	
U7180.0	PRUNE WOODY PLANTS	
U7181.0	MANAGE WOUNDS AND DEFECTS OF WOODY PLANTS	
U7182.0	MANAGE PESTS, DISEASES AND/OR DISORDERS	
U7183.0	TRANSPLANT WOODY PLANTS	
U7184.0	MAINTAIN AND OPERATE CHAINSAW	
U7185.0	MAINTAIN AND OPERATE CHIPPER	
U7186.0	HOIST AND RIG TREES	

NOTE ON SHADED PERFORMANCE OBJECTIVES AND SKILLS:

- Shaded performance objectives and skill sets are optional. The shaded skills do not have to be demonstrated or signed-off for completion of the on-the-job component of the apprenticeship
- The in-school curriculum learning outcomes will cover all of the skill sets, both shaded and unshaded.
- The Certificate of Qualification examination will test the whole of the trade and may test both shaded and unshaded performance skill sets.

U7175.0 PROTECT SELF AND OTHERS

GENERAL PERFORMANCE OBJECTIVE

Protect self and others by: complying with federal, provincial and municipal legislation and regulations; selecting, adjusting, maintaining and wearing appropriate eye, head, hearing, hand, foot protection, chainsaw safety pants or chaps and work positioning system; mounting and dismounting equipment; selecting, inspecting and using hand tools and tree maintenance equipment; handling and carrying tree maintenance equipment in a safe manner; and identifying hazards.

PERFORMANCE OBJECTIVES

SKILLS

U7175.01 Comply with federal, provincial and municipal legislation and regulations, including all worksite specific requirements during all job operations, to ensure safety of self and others.

Date Completed

Apprentice

Supervisor/Trainer

U7175.02 Select, adjust, maintain and wear appropriate eye protection, ensuring correct fit and optimum protection during all job operations, to protect self from eye injury.

Date Completed

Apprentice

Supervisor/Trainer

U7175.03 Select, adjust, maintain and wear appropriate face protection, ensuring correct fit and optimum protection during all job operations, to protect self from facial injury.

Date Completed

Apprentice

Supervisor/Trainer

U7175.0 PROTECT SELF AND OTHERS...cont'd

U7175.04 Select, adjust, maintain and wear appropriate head protection, ensuring correct fit and optimum protection during all job operations, to protect self from head injury.

Date Completed

Apprentice

Supervisor/Trainer

U7175.05 Select, adjust, maintain and wear appropriate hearing protection, ensuring correct fit and optimum noise protection during job operations where daily noise exposure exceeds regulated limits, to protect against hearing loss.

Date Completed

Apprentice

Supervisor/Trainer

U7175.06 Select, maintain and wear appropriate hand protection, ensuring correct fit and optimum protection during all job operations, to protect self from hand injury.

Date Completed

Apprentice

Supervisor/Trainer

U7175.07 Select, adjust, maintain and wear appropriate foot protection, ensuring correct fit and optimum protection during all job operations, to protect self from foot injury.

Date Completed

Apprentice

Supervisor/Trainer

U7175.08 Select, adjust, maintain and wear appropriate chainsaw safety pants or chaps, according to the circumstance, ensuring correct fit and optimum protection, during all chainsaw operations, to protect self from leg injury.

Date Completed

Apprentice

Supervisor/Trainer

U7175.0 PROTECT SELF AND OTHERS...cont'd

U7175.09 Select, adjust, maintain and wear work positioning system, appropriate to the circumstance, ensuring correct fit, to protect self from injury.

Date Completed Apprentice Supervisor/Trainer

U7175.10 Mount and dismount equipment, using 3-point contact method, to prevent personal injury.

Date Completed Apprentice Supervisor/Trainer

U7175.11 Select, inspect and use hand tools and tree maintenance equipment in a safe manner during all job operations, according to owners/operators manuals, to protect self and others from injury.

Date Completed Apprentice Supervisor/Trainer

U7175.12 Handle and carry tree maintenance equipment in a safe manner during all job operations, according to owner's/operator's manuals, to protect self and others from injury.

Date Completed Apprentice Supervisor/Trainer

U7175.13 Identify hazards, keeping safe distances between self, others and equipment during all worksite operations, to protect self and others from injury.

Date Completed Apprentice Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7176.0 WORK IN A SAFE ENVIRONMENT**GENERAL PERFORMANCE OBJECTIVE**

Work in a safe environment by: identifying climatic extremes of wind, temperature and precipitation; identifying potential hazards in trees; identifying unstable ground conditions; identifying overhead utility apparatus; identifying underground utility apparatus, identifying electrical hazards; establishing barriers to all overhead energized electrical apparatus in proximity to woody plants; establishing barriers to all underground utility apparatus; identifying handling, storage and material disposal hazards; following required fire procedures; communicating on the worksite; identifying potential public hazards; and monitoring worksite conditions.

PERFORMANCE OBJECTIVES**SKILLS**

U7176.01 Identify climatic extremes of wind, lightening, temperature and precipitation, as they affect the worksite, work procedures and equipment, to ensure personal safety and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7176.02 Identify potential hazards in trees, including hangers, deadwood, insects, animals and structural deficiencies, by visual inspection, to establish worksite safety.

Date Completed

Apprentice

Supervisor/Trainer

U7176.03 Identify potential hazards in adjacent trees, including hangers, deadwood, foreign bodies and structural deficiencies, by visual inspection, to establish worksite safety.

Date Completed

Apprentice

Supervisor/Trainer

U7176.0 WORK IN A SAFE ENVIRONMENT...cont'd

U7176.04 Identify unstable ground conditions, including uneven grades, ice and holes, by visual inspection, to ensure personal safety and efficient job performance.

Date Completed Apprentice Supervisor/Trainer

U7176.05 Identify overhead utility apparatus through site inspections including transmission, sub transmission and distribution voltage electrical conductors, circuit configurations including meters, switches, reclosures, capacitors, insulators, transformers, lightning arresters, guy wires, communications and television conductors, to ensure personal, public and site safety.

Date Completed Apprentice Supervisor/Trainer

U7176.06 Identify underground utility apparatus through site inspections including, underground conductors, electrical hardware, anchors, grounds, communications conductors, and natural gas or water lines, to ensure personal, public and site safety.

Date Completed Apprentice Supervisor/Trainer

U7176.07 Identify electrical hazards, including touch potential, step potential, induction potential, and second point of contact, back feed, using Ohm’s Law of flow, resistance, voltage and related electrical system theory, to ensure a safe work area.

Date Completed Apprentice Supervisor/Trainer

U7176.08 Establish barriers to all overhead energized electrical apparatus in proximity to woody plants, including contacting the Controlling Authority, application of limits of approach for unauthorized workers, requesting isolation and de-energization from Controlling Authority, in accordance with the Electrical Safety Rule Book, to ensure personal, public and site safety.

Date Completed Apprentice Supervisor/Trainer

U7176.0 WORK IN A SAFE ENVIRONMENT...cont'd

U7176.09 Establish barriers to all underground utilities, including obtaining locates prior to commencing work, in accordance with the Ontario Regional Common Ground Alliance Best Practices, to ensure personal, public and site safety.

Date Completed

Apprentice

Supervisor/Trainer

U7176.10 Identify handling, storage and material disposal hazards, including motor fuel, lubricants and cleaning solvents, to protect self and others from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7176.11 Follow required fire procedures, by identifying potential fire hazards and complying with related regulations, to protect self and others from fire injury.

Date Completed

Apprentice

Supervisor/Trainer

U7176.12 Communicate on the worksite, by oral and written means, hand signals and electronic means, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7176.13 Identify potential public hazards, including pedestrian and vehicular traffic, to create a safe and secure worksite and to protect self and others from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7176.0 **WORK IN A SAFE ENVIRONMENT...cont'd**

U7176.14 **Monitor worksite conditions**, by identifying changes in climatic conditions, hazards and personnel activities, to maintain a safe work worksite.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7177.0 PLAN JOB**GENERAL PERFORMANCE OBJECTIVE**

Plan job by: interpreting all job documents; controlling work site vehicular and pedestrian traffic; identifying woody plants; identifying hazardous plant material; controlling worksite hazards; selecting tools, equipment, supplies and personnel; planning work sequence and method; communicating job plan and changes; identifying required emergency equipment and procedures.

PERFORMANCE OBJECTIVES**SKILLS**

U7177.01 Interpret all job documents, including work orders, and plans and specifications, to determine the scope of work and required equipment, to ensure safe worksite and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7177.02 Control work site vehicular and pedestrian traffic, by using appropriate devices including pylons, caution tape and signage, to maintain safe job conditions for self and others.

Date Completed

Apprentice

Supervisor/Trainer

U7177.03 Identify woody plants, according to species and locations as specified in job requirements, to meet job objectives.

Date Completed

Apprentice

Supervisor/Trainer

U7177.0 PLAN JOB...cont'd

U7177.04 Identify hazardous plant material, according to species including poison ivy, poison oak and London plane tree, to protect self and others from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7177.05 Control worksite hazards, including hangers and flying or falling debris by using appropriate barriers, to maintain a safe work environment.

Date Completed

Apprentice

Supervisor/Trainer

U7177.06 Select tools, equipment, supplies and personnel, according to the work to be performed, to ensure safe and efficient job operations.

Date Completed

Apprentice

Supervisor/Trainer

U7177.07 Plan work sequence and method, by assessing identified hazards and barriers, site conditions and job requirements, to ensure safe job operations.

Date Completed

Apprentice

Supervisor/Trainer

U7177.0 PLAN JOB...cont'd

U7177.08 Communicate job plan and changes, by written and verbal means to all personnel, to ensure safe job conditions and efficient performance.

Date Completed

Apprentice

Supervisor/Trainer

U7177.09 Identify required emergency equipment and procedures, to respond to emergencies, to protect self and others from injury.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7178.0 REMOVE WOODY PLANTS**GENERAL PERFORMANCE OBJECTIVE**

Remove woody plants by: identifying woody plants to be removed; identifying structural hazards; selecting removal methods; selecting and inspecting required tools and equipment; preparing felling area; inspecting and setting up tools and equipment; felling woody plants; performing sectional removal of woody plant; identifying hazards associated with trees under tension or compression; bucking and limbing felled woody plants; cleaning up debris; and maintaining and storing tools and equipment.

PERFORMANCE OBJECTIVES**SKILLS**

U7178.01 Identify woody plants to be removed, by confirming plant species and site location, to comply with job work orders and specifications.

Date Completed

Apprentice

Supervisor/Trainer

U7178.02 Identify structural hazards, by inspecting woody plants for root, stem and crown defects, to determine safe and efficient removal methods.

Date Completed

Apprentice

Supervisor/Trainer

U7178.03 Select removal method, according to plant type, site conditions, job requirements and potential hazards, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7178.0 REMOVE WOODY PLANTS...cont'd

U7178.04 **Select and inspect required tools and equipment**, according to job site conditions and removal methods, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7178.05 **Prepare felling area**, by securing worksite, eliminating or controlling hazards and establishing an escape route, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7178.06 **Inspect and set up required tools and equipment**, according to applicable legislation, manufacturer's specifications and selected removal method(s), to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7178.07 **Fell woody plants**, according to selected methods, tools and equipment including chainsaws, and by maintaining escape routes, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7178.08 **Perform sectional removals of woody plant**, according to predetermined methods, using selected tools and equipment including chainsaws, climbing and rigging techniques, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7178.0 REMOVE WOODY PLANTS...cont'd

U7178.09 Identify hazards associated with trees under tension or compression, including spring poles and uprooted trees, to ensure a safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

U7178.10 Buck and limb felled woody plants, according to selected methods, tools and equipment including chainsaws and wedges, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7178.11 Clean up debris, during and after removal operations, to ensure safe worksite and meet job requirements.

Date Completed

Apprentice

Supervisor/Trainer

U7178.12 Maintain and store tools and equipment, including chainsaws and rigging equipment, according to applicable legislation and manufacturers' specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7179.0 CLIMB TREES AND WORK AT HEIGHTS GENERAL PERFORMANCE**OBJECTIVE**

Climb trees and work at heights by: selecting, inspecting and maintaining conventional fall protection systems; selecting, inspecting and maintaining split tail fall protection systems; wearing and adjusting conventional fall protection systems; wearing and adjusting split tail fall protection systems; tying, dressing and setting friction knots; tying, dressing and setting termination knots; inspecting tree; selecting and assessing interim anchor points; selecting and assessing final anchor points; placing climbing rope into interim anchor location; ascending trees without spurs; ascending trees with spurs; repositioning climbing line; securing self at various work location; selecting, inspecting and maintaining tree rigging equipment; raising, lowering and securing tools and equipment; operating tree pruning tools aloft; controlling movement of cut limbs and trunk sections with or without rigging equipment, inspecting trees; descending trees with or without spurs; responding to emergency situations; and performing an aerial rescue.

PERFORMANCE OBJECTIVES**SKILLS**

U7179.01 **Select, inspect and maintain conventional fall protection systems,** including arborist saddle, spurs, ropes, work positioning lanyards, mechanical fall arrestors and connecting devices according to Canadian Standards Association (CSA), American National Standards Institute (ANSI), manufacturer specifications and climbing circumstances, to protect self from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7179.02 **Select, inspect and maintain split tail fall protection systems,** including arborist saddle, spurs, ropes, work positioning lanyards, mechanical fall arrestors and connecting devices, according to Canadian Standards Association (CSA), American National Standards Institute (ANSI), manufacturer specifications and climbing circumstances, to protect self from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7179.0 CLIMB TREES AND WORK AT HEIGHTS...cont'd

U7179.03 Wear and adjust conventional fall protection systems, including arborist saddle, spurs, ropes, work positioning lanyards and connecting devices, according to manufacturer specifications and climbing circumstances, to protect self from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7179.04 Wear and adjust split tail fall protection systems, including arborist saddle, spurs, ropes, work positioning lanyards and connecting devices, according to manufacturer specifications and climbing circumstances, to protect self from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7179.05 Tie, dress and set friction knots, including Taut line Hitch, Blake's Hitch, Swabbish Hitch, Gripping Hitch, Klemheist and Prussic (6 coil), prior to ascending and according to climbing situations, to protect self from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7179.06 Tie, dress and set termination knots, including Anchor Hitch, Beckett Bend, Cow Hitch on an Eye Splice, Triple Fisherman and Figure 8 on a bite, prior to ascending and according to climbing situations, to protect self from injury.

Date Completed

Apprentice

Supervisor/Trainer

U7179.0 CLIMB TREES AND WORK AT HEIGHTS...cont'd

U7179.07 **Inspect tree**, including, root zone, trunk and crown, prior to climbing, for structural defects, rots, decay, fruiting bodies, grade changes, conks, deadwood, dieback, abnormal growth, missing sections of tree, electrical conductors, to determine whether the structure of the tree can withstand the weight of the arborist and all potential loads that could be applied to it during working aloft, to ensure a safe and efficient access within the tree.

Date Completed

Apprentice

Supervisor/Trainer

U7179.08 **Select and assess interim anchor points**, to determine tree ascent route and suitability as an anchor, by assessing characteristics including, type of load to be applied, loading from stem of tree, other loads on the limb (foliage, snow, torque etc), tree species, cross sectional area of tree limb, condition of wood, angle of branch attachment, size of branch relative to stem, characteristic of branch union, season and temperature, location of limb, to ensure safe and efficient access to anchor locations.

Date Completed

Apprentice

Supervisor/Trainer

U7179.09 **Select and assess final anchor points**, to determine tree ascent route and suitability as an anchor location, by identifying characteristics including, type of load to be applied, loading from stem of tree, other loads on the limb (foliage, snow, torque etc), tree species, cross sectional area of tree limb, condition of wood, angle of branch attachment, size of branch relative to stem, characteristic of branch union, season and temperature, location for work within the tree, to ensure safe and efficient access to final anchor location.

Date Completed

Apprentice

Supervisor/Trainer

U7179.0 CLIMB TREES AND WORK AT HEIGHTS...cont'd

U7179.10 Place climbing rope into interim anchor location, using various methods including rope poking tool, pole pruner and throw line, to ensure a safe and efficient ascent.

Date Completed

Apprentice

Supervisor/Trainer

U7179.11 Ascend trees without spurs, according fall protection systems and circumstance, using required equipment including arborist saddle, ropes, work positioning lanyards, connecting devices, friction hitches, mechanical fall arrestors and termination knots, to ensure safe and efficient ascent.

Date Completed

Apprentice

Supervisor/Trainer

U7179.12 Ascend trees with spurs, according to fall protection systems and circumstance, using required equipment including arborist saddle, spurs, ropes, work positioning lanyards, connecting devices, friction hitches, mechanical fall arrestors, and termination knots, to ensure safe and efficient ascent.

Date Completed

Apprentice

Supervisor/Trainer

U7179.13 Reposition climbing line, utilizing fall protection systems including double crotching technique and work positioning lanyard, to ensure safe and efficient ascent.

Date Completed

Apprentice

Supervisor/Trainer

U7179.0 CLIMB TREES AND WORK AT HEIGHTS...cont'd

U7179.14 Secure self at work location, utilizing a secondary fall protection systems including, work positioning lanyard, double crutching technique, to ensure safe work positioning.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7179.15 Select, inspect and maintain tree rigging equipment, including rigging blocks, ropes, friction devices, handsaws, pole saws and chainsaws, according to manufacturers' specifications, to ensure a safe and efficient worksite.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7179.16 Raise, lower and secure tools and equipment, by using ropes, work positioning lanyards and/or connecting devices, to ensure safe work environment.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7179.17 Operate tree pruning tools aloft, including chainsaws, pole prune, hand saw and rigging equipment, according to methods selected, to ensure safe and efficient job performance.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7179.18 Control movement of cut limbs and trunk sections, using rigging systems including ropes, pulleys, and slings, to ensure safe and efficient job operations.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7179.0 CLIMB TREES AND WORK AT HEIGHTS...cont'd

U7179.19 Control movement of cut limbs and trunk sections, without rigging systems, using manual manipulation and free falling, to ensure safe and efficient job operations.

Date Completed

Apprentice

Supervisor/Trainer

U7179.20 Inspect tree, visually prior to final descent from tree, to ensure no visible hazards including hanger remains, in order to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7179.21 Descend tree with spurs, by using equipment required in the circumstance, including arborist saddle, spurs, ropes, work positioning lanyards, connecting devices, friction hitches, termination knots and fall protection systems, to ensure safe and efficient descent.

Date Completed

Apprentice

Supervisor/Trainer

U7179.22 Descend tree without spurs, by using equipment required in the circumstance, including arborist saddle, ropes, work positioning lanyards, connecting devices, friction hitches, termination knots and fall protection system, to ensure safe and efficient descent.

Date Completed

Apprentice

Supervisor/Trainer

U7179.0 CLIMB TREES AND WORK AT HEIGHTS...cont'd

U7179.23 Respond to emergency situation, by assessing, evaluating and acting according to the needs of the injured or disabled worker, to provide an effective response.

Date Completed

Apprentice

Supervisor/Trainer

U7179.24 Perform aerial rescue, using appropriate methods, to enable rescue of injured or disabled worker,

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7180.0 PRUNE WOODY PLANTS**GENERAL PERFORMANCE OBJECTIVE**

Prune woody plants by: identifying woody plants to be pruned; selecting pruning methods; selecting tools and equipment; inspecting tools and equipment; removing unwanted limbs and branches; inspecting woody plants; cleaning up debris; and maintaining and storing tools and equipment.

PERFORMANCE OBJECTIVES**SKILLS**

U7180.01 Identify woody plants to be pruned, by confirming plant species and worksite location, to comply with job work orders and specifications.

Date Completed

Apprentice

Supervisor/Trainer

U7180.02 Select pruning methods including crown thinning and dead wooding, according to desired results, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7180.03 Select tools and equipment, according to job conditions and selected pruning method, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7180.04 Inspect tools and equipment, according to manufacturer specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7180.0 PRUNE WOODY PLANTS...cont'd

U7180.05 Remove unwanted limbs and branches, by performing cuts with a chainsaw or other tools, according to selected pruning methods, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7180.06 Inspect woody plant, on completion of work, to ensure no visible hazard remains and desired results achieved.

Date Completed

Apprentice

Supervisor/Trainer

U7180.07 Clean up debris, during and after pruning operations, to ensure safe worksite and meet job requirements.

Date Completed

Apprentice

Supervisor/Trainer

U7180.08 Maintain and store tools and equipment, according to applicable legislation and manufacturer's specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7181.0 MANAGE WOUNDS AND DEFECTS OF WOODY PLANTS

GENERAL PERFORMANCE OBJECTIVE

Manage wounds and defects of woody plants by: identifying subject woody plants; identifying wounds and defects; selecting method of treatment; selecting tools, equipment and materials; inspecting tools, equipment and materials; installing flexible bracing systems; installing rigid bracing systems; performing bark tracing; treating cavities in woody plants; installing drains in woody plants; treating damaged or girdling roots on woody plants; and maintaining and storing tools and equipment.

PERFORMANCE OBJECTIVES

SKILLS

U7181.01 Identify subject woody plants, by confirming plant species and site location, to comply with job work orders and specifications.

Date Completed

Apprentice

Supervisor/Trainer

U7181.02 Identify wounds and defects, by inspecting woody plants, to determine methods of treatment.

Date Completed

Apprentice

Supervisor/Trainer

U7181.03 Select treatment method, according to type and severity of wound/defect, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7181.0 MANAGE WOUNDS AND DEFECTS OF WOODY PLANTS...cont'd

U7181.04 **Select tools, equipment and materials**, according to job conditions and selected management method, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7181.05 **Inspect tools, equipment and materials**, according to manufacturer specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7181.06 **Install flexible bracing systems**, including direct, triangular, box and hub and spoke, using selected tools, equipment and materials including drill, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7181.07 **Install rigid bracing systems**, including single, parallel, alternating and crossing, using selected tools, equipment and materials, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7181.08 **Perform bark tracing**, using selected tools including knives, chisels and mallets, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7181.09 **Treat cavities in woody plants**, according to importance of the tree, species, age and condition, size and location of the cavity, using selected tools, equipment and materials, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7181.0 **MANAGE WOUNDS AND DEFECTS OF WOODY PLANTS...cont'd**

U7181.10 **Install drains in woody plants**, using tools and selected equipment, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7181.11 **Treat damaged or girdling roots on woody plants**, using tools including shovels, loppers and chisels, to achieve desired results.

Date Completed

Apprentice

Supervisor/Trainer

U7181.12 **Maintain and store tools and equipment**, by cleaning and servicing, according to manufacturer's specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7182.0 MANAGE PESTS, DISEASES AND/OR DISORDERS GENERAL**PERFORMANCE OBJECTIVE**

Manage pests, diseases and disorders by: determining normal growth characteristics, normal appearance and common problems of subject woody plants; identifying potential sources of stress; identifying symptoms of abnormal growth; collecting, analyzing and interpreting soil and plant tissue samples; diagnosing woody plant problems; selecting tools, equipment and materials; inspecting tools, equipment and materials; selecting fertilizer and soil amendments; selecting fertilizer application and soil amendments application methods; applying fertilizer and soil amendments; aerating soil; irrigating soil; applying biological control methods; applying mulches; performing selective pruning /removal; evaluating effectiveness of treatments; and maintaining and storing tools and equipment.

PERFORMANCE OBJECTIVES**SKILLS**

U7182.01 Determine normal growth characteristics, normal appearance and common problems of subject woody plants, by species/variety identification, to diagnose pest/disease problems and disorders.

Date Completed

Apprentice

Supervisor/Trainer

U7182.02 Identify potential sources of stress, including soil compaction, desiccation, construction damage, through assessment of site and the woody plant, to determine factors that limit plant health.

Date Completed

Apprentice

Supervisor/Trainer

U7182.03 Identify symptoms of abnormal growth, including witch's broom and epitemic growth, by systematically inspecting woody plants, to determine factors that limit plant health.

Date Completed

Apprentice

Supervisor/Trainer

U7182.0 MANAGE PESTS, DISEASES AND/OR DISORDERS...cont'd

U7182.04 Collect, analyse and interpret soil and plant tissue samples, using scientific methodology, to identify problems that limit plant health.

Date Completed

Apprentice

Supervisor/Trainer

U7182.05 Diagnose woody plant problems, such as non-infectious disorders, insects and infectious diseases, according to determined factors and information, to provide best-integrated management options.

Date Completed

Apprentice

Supervisor/Trainer

U7182.06 Select tools, equipment and materials, according to job conditions and diagnosed problems, to perform safe and effective treatments.

Date Completed

Apprentice

Supervisor/Trainer

U7182.07 Inspect tools, equipment and materials, according to manufacturer's specifications, to achieve safe and efficient application of treatments/controls.

Date Completed

Apprentice

Supervisor/Trainer

U7182.08 Select fertilizer and soil amendments, according to soil and plant tissue analysis, to improve or maintain woody plant health.

Date Completed

Apprentice

Supervisor/Trainer

U7182.0 MANAGE PESTS, DISEASES AND/OR DISORDERS...cont'd

U7182.09 Select fertilizer application and soil amendments application methods, including foliar, soil injection, trunk injection, and auger and fill, according to soil and plant tissue analysis, to improve or maintain woody plant health.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7182.10 Apply fertilizers and soil amendments, according to manufacturer's recommended rates, soil and plant tissue analysis, to improve or maintain woody plant health.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7182.11 Aerate soil, using selected tools and equipment including mechanical aerator, auger or soil injection, to increase pore spaces in soil.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7167.12 Irrigate soil, using selected tools and equipment, to improve or maintain woody plant health.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7182.13 Apply biological control methods, by introducing and/or conserving natural predators, parasitoids and pathogens, to achieve desired results.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7182.14 Apply mulches, using tools and selected materials, to improve or maintain woody plant health.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7182.0 MANAGE PESTS, DISEASES AND/OR DISORDERS...cont'd

U7182.15 Perform selective pruning /removal, using tools and equipment including chainsaws, to reduce insect-infected and/or disease-infected material in woody plants.

Date Completed

Apprentice

Supervisor/Trainer

U7182.16 Evaluate effectiveness of treatments, by monitoring and recording plant and site conditions including plant vigour, pest population and symptoms of disease, to determine effectiveness of treatments.

Date Completed

Apprentice

Supervisor/Trainer

U7182.17 Maintain and store tools and equipment, by cleaning and servicing according to manufacturer's specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7183.0 TRANSPLANT WOODY PLANTS GENERAL PERFORMANCE OBJECTIVE

Transplant woody plants by: inspecting nursery stock; selecting tools, equipment and materials; inspecting tools and equipment; digging woody plants; handling, loading and protecting nursery stock for transport and interim storage; preparing planting sites; installing woody plant material; installing anchor systems; applying mulches over root zones; performing follow-up maintenance; and maintaining and storing tools and equipment.

PERFORMANCE OBJECTIVES

SKILLS

U7183.01 Inspect nursery stock, according to job specifications, to confirm stock acceptability.

Date Completed	Apprentice	Supervisor/Trainer

U7183.02 Select tools, equipment and materials, according to job/site conditions and size of trees, to maximize transplanting success.

Date Completed	Apprentice	Supervisor/Trainer

U7183.03 Inspect tools and equipment, according to manufacturer’s specifications, to ensure safe and efficient transplanting.

Date Completed	Apprentice	Supervisor/Trainer

U7183.0 TRANSPLANT WOODY PLANTS...cont'd

U7183.04 Dig woody plants, by bare root, balled and bur lapped or tree-spaded methods, manually or mechanically, according to specifications, to maximize transplanting success.

Date Completed

Apprentice

Supervisor/Trainer

U7183.05 Handle, load and protect nursery stock for transport and interim storage, using selected equipment and materials, to minimize desiccation and damage.

Date Completed

Apprentice

Supervisor/Trainer

U7183.06 Prepare planting site, according to plans, locates specifications and site requirements, to maximize transplanting success.

Date Completed

Apprentice

Supervisor/Trainer

U7183.07 Install woody plant material, according to plans and specifications, to maximize transplanting success.

Date Completed

Apprentice

Supervisor/Trainer

U7183.08 Install anchor systems, to support and stabilize woody plants as required, to maximize plant survival.

Date Completed

Apprentice

Supervisor/Trainer

U7183.0 TRANSPLANT WOODY PLANTS...cont'd

U7183.09 Apply mulch over root zone, according to plans and job specifications, to maximize transplanting success.

Date Completed

Apprentice

Supervisor/Trainer

U7183.10 Perform follow-up maintenance, according to cultural requirements and current plant condition, to promote woody plant vitality.

Date Completed

Apprentice

Supervisor/Trainer

U7183.11 Maintain and store tools and equipment, by cleaning and servicing, according to manufacturer's specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7184.0 MAINTAIN AND OPERATE CHAINSAW GENERAL PERFORMANCE**OBJECTIVE**

Maintain and operate chainsaws by: selecting, adjusting, maintaining and wearing approved chainsaw safety pants or chaps; handling and carrying chainsaws in a safe manner; cleaning and lubricating chainsaws; servicing bars; performing routine repair/maintenance of chainsaws; sharpening chains; refilling fuel and chain lubricant reservoirs; adjusting chain tension; starting/stopping chainsaws; setting engine idle speeds; checking chain brake function; testing chainsaw operation; and bucking and lambing felled trees.

PERFORMANCE OBJECTIVES**SKILLS**

U7184.01 **Select, adjust, maintain and wear, appropriate chainsaw safety pants or chaps,** ensuring correct fit and optimum protection during all chainsaw operations, to protect self from leg injury.

Date Completed_____
Apprentice_____
Supervisor/Trainer

U7184.02 **Handle and carry chainsaw in a safe manner,** according to owner's/operator's manuals, to protect self and others from injury.

Date Completed_____
Apprentice_____
Supervisor/Trainer

U7184.03 **Clean and lubricate chainsaws,** by using required tools and materials, according to manufacturer's specifications, to ensure efficient performance and safe running conditions.

Date Completed_____
Apprentice_____
Supervisor/Trainer

U7184.0 MAINTAIN AND OPERATE CHAINSAW...cont'd

U7184.04 Service bars, according to manufacturer's specifications, to ensure efficient performance and safe running conditions.

Date Completed Apprentice Supervisor/Trainer

U7184.05 Perform routine repair and maintenance of chainsaws, according to manufacturer's specifications, to ensure efficient performance and safe running conditions.

Date Completed Apprentice Supervisor/Trainer

U7184.06 Sharpen chains, according to manufacturer's specifications, to maximize cutting efficiency.

Date Completed Apprentice Supervisor/Trainer

U7184.07 Refill fuel and chain lubricant reservoirs, using required products/mixes, according to manufacturer's specifications, to ensure safe and efficient performance.

Date Completed Apprentice Supervisor/Trainer

U7184.08 Adjust chain tension, according to manufacturer's specifications, to reduce wear, maximize cutting efficiency and ensure safe operation.

Date Completed Apprentice Supervisor/Trainer

U7184.0 MAINTAIN AND OPERATE CHAINSAW...cont'd

U7184.09 Start and stop chainsaws, according to manufacturer's specifications and required safety procedures, to ensure safe operation.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7184.10 Set engine idle speed, by using adjusting tools, to ensure chain is stationary while idling.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7184.11 Check chain brake function, at operational speed and by applying brake, to ensure that the chain stops, as required.

U7184.12 Test chainsaw operation, by performing a cut in wood, to confirm readiness.

Date Completed _____
Apprentice _____
Supervisor/Trainer

U7184.13 Buck and limb felled trees, according to manufacturer's specifications, to ensure safe and efficient job performance.

Date Completed _____
Apprentice _____
Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7185.0 MAINTAIN AND OPERATE CHIPPER**GENERAL PERFORMANCE OBJECTIVE**

Maintain and operate chipper by: securing chipper for transportation; conducting pre-operational checks; setting up and starting up chipper; conducting operational checks; feeding chipper; shutting down chipper; performing emergency shut downs; storing chipper; and performing preventive maintenance.

PERFORMANCE OBJECTIVES**SKILLS**

U7185.01 Secure chipper for transportation, by connecting safety chains and/or tie-downs and signal lights, as required, to ensure safe transportation and meet legislated requirements.

Date Completed

Apprentice

Supervisor/Trainer

U7185.02 Conduct pre-operational checks, according to manufacturer's instructions and legislated requirements, to ensure safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7185.03 Set up and start up chipper, according to manufacturer's instructions, to ensure safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7185.0 MAINTAIN AND OPERATE CHIPPER...cont'd

U7185.04 Conduct operational checks, by inspecting all safety and operational components, verifying that they are in place and operational, to ensure safe and efficient operations.

Date Completed

Apprentice

Supervisor/Trainer

U7185.05 Feed chipper, according to manufacturer's operating procedures, to ensure safe and efficient operations.

Date Completed

Apprentice

Supervisor/Trainer

U7185.06 Shut down chipper, according to manufacturer's operating procedures, to ensure safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7185.07 Perform emergency shutdown, according to manufacturer's operating procedures, to achieve a quick shut down.

Date Completed

Apprentice

Supervisor/Trainer

U7185.0 MAINTAIN AND OPERATE CHIPPER...cont'd

U7185.08 Store chipper, according to manufacturer's short or long term storing procedures, to ensure public and personnel safety.

Date Completed

Apprentice

Supervisor/Trainer

U7185.09 Perform preventative maintenance, according to manufacturer's procedures, to ensure worker safety, extend machine life and optimize machine performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

U7186.0 HOIST AND RIG TREES**GENERAL PERFORMANCE OBJECTIVE**

Hoist and rig trees by: interpreting worksite documentation; inspecting access to worksite; calculating weight and determining balance point; establishing job plan; communicating job plan to personnel; establishing barriers; selecting and inspecting rigging equipment; maintaining communications with crane operator; determining choker locations; ascending tree by climbing or using an aerial device; assessing choker location(s) for defects; connecting slings and hardware to attachment point and hook of crane; signaling crane operator to pre-tension hoist line; inspecting rigging system prior to lifting; positioning self to the planned cutting location; removing obstructing branches; communicating with crane operator; performing cutting sequence; signaling crane operator; positioning and securing load; and maintaining and storing rigging equipment.

PERFORMANCE OBJECTIVES**SKILLS**

U7186.01 Interpret worksite documentation, including work site specification, crane and load weights, working radius, and hook height in collaboration with crane operator, so that lifts are planned to ensure safe and efficient rigging operations.

Date Completed

Apprentice

Supervisor/Trainer

U7186.02 Inspect work site access, ensuring area is compacted, graded, and free of hazards including electrical power lines, overhead and underground hazards, and checking for adequate distance from embankments and structures, in collaboration with crane operator, so that the crane can be set up safely and efficiently.

Date Completed

Apprentice

Supervisor/Trainer

U7186.0 HOIST AND RIG TREES...cont'd

U7186.03 Calculate weight and determine balance point, by using load charts, green log weight tables, measuring devices, lean of stem or branch, in collaboration with crane operator, so that lifts can be performed in a safe and efficient manner.

Date Completed

Apprentice

Supervisor/Trainer

U7186.04 Establish job plan, including identifying and controlling electrical hazards, landing zone location, work sequence, load path, tag lines required and job duties to create a safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7186.05 Communicate job plan to all personnel, both verbally and in written form to establish work sequence and methods, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

U7186.06 Establish barriers, using barricades, barrier tape and cones, to control hazards identified in the job plan including traffic and pedestrians, and to create a safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

U7186.0 HOIST AND RIG TREES...cont'd

U7186.07 **Select and inspect rigging equipment**, including nylon slings, wire slings, shackles, clevis' and hardware, in accordance with rigging manuals, regulations and company policy, in collaboration with crane operator, so that rigging operations can be performed in a safe and efficient manner.

Date Completed

Apprentice

Supervisor/Trainer

U7186.08 **Maintain communications with crane operator**, using oral methods, two way radios, hand signals, or a designated signal person during job operation, to ensure safe and efficient performance.

Date Completed

Apprentice

Supervisor/Trainer

U7186.09 **Determine choker locations**, considering factors which include weight distribution, lean, stem integrity, bark condition, branch locations and path of the lift, to ensure a safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7186.10 **Ascend tree**, by using climbing techniques with an open system, closed system or an aerial device to position self to rigging location(s), in order to access choker location.

Date Completed

Apprentice

Supervisor/Trainer

U7186.0 HOIST AND RIG TREES...cont'd

U7186.11 Assess choker location(s) for defects, prior to connecting slings and hardware to attachment point and hook of crane, including splits, cavities and weak branch unions and, to ensure a safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7186.12 Connect slings and hardware to attachment point and hook of crane, by choking slings and securing mechanical connectors to tree section(s), according to job plan, to ensure safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7186.13 Signal crane operator, to pre-tension hoist line and for crane operator to increase the load on the crane to the estimated weight of the tree section, according to the job plan, to ensure safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

U7186.14 Inspect rigging system, prior to lifting, ensuring that connectors are closed, slings are not twisted, and safety devices are secured, to ensure a safe and efficient lift.

Date Completed

Apprentice

Supervisor/Trainer

U7186.15 Position self to the planned cutting location, using climbing techniques with an open system, closed system or aerial device, to begin cutting sequence.

Date Completed

Apprentice

Supervisor/Trainer

U7186.0 HOIST AND RIG TREES...cont'd

U7186.16 Remove obstructing branches, using required tools including chainsaw, handsaw and pruner, to prevent interference with the climber as the section is lifted, to ensure a safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

U7186.17 Communicate with crane operator, before beginning the cut, using verbal or hand signals, to ensure a safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

U7186.18 Perform cutting sequence, by using required cutting techniques including notch and back cut, horizontal cuts, or diagonal cuts, to effect transfer of load from the tree to the crane in a gradual and controlled manner.

Date Completed

Apprentice

Supervisor/Trainer

U7186.19 Signal crane operator, to move material to the designated landing zone, using verbal and hand signals, according to the job plan and to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

U7186.0 HOIST AND RIG TREES...cont'd

U7186.20 Position and secure load, before removing slings, so that personnel are not at risk from the load shifting or falling.

Date Completed

Apprentice

Supervisor/Trainer

U7186.21 Maintain and store rigging equipment, as directed by crane operator, including lubricating wire rope and chain, cleaning slings and hardware, and storing equipment in dry areas away from heat and corrosive chemicals, according to manufacturer's requirements and rigging manuals.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

APPRENTICE RECORD

APPRENTICE NAME (Print):	
SPONSOR/EMPLOYER INFORMATION	
Training Agreement #	
Name	
Address	
Telephone	
E-mail Address	

SUMMARY OF TRAINING	
Employment Start Date	
Employment End Date	
Total hours of training & instruction between dates of employment.	

Date Completed

Apprentice

Supervisor/Trainer

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Employment End Date	
Total hours of training & instruction between dates of employment.	

Date Completed

Apprentice

Supervisor/Trainer

APPRENTICE COMPLETION FORM

APPRENTICE NAME	
Print	
Signature	
Social Insurance Number	

Skill Sets when completed should be signed by the Supervisor/Trainer and presented with this completion form to your local Apprenticeship Client Services Office. Any supporting documentation should also be attached.

In-school Completed Yes () No () Not applicable ()
 (Proof to be Provided)

Hours completed as
 Per Contract: Yes () No () Not applicable ()

SPONSOR/EMPLOYER INFORMATION	
Name	
Address	
Telephone	
E-mail Address	
Signature of Signing Authority	

You will be required to disclose this signed form to the Ministry of Training, Colleges and Universities in order to complete your program. The Ministry will use your personal information to administer and finance Ontario's apprenticeship training system. For further information please see the notice/declaration for collection of personal information that is referenced in the table of contents of this training standard.