



ONTARIO COLLEGE OF TRADES

ORDRE DES MÉTIERS DE L'ONTARIO

Apprenticeship Training Standard

Utility Arborist

Trade Code: 444B

Development Date: 2006

<u>CONTENTS</u>	<u>PAGE</u>
Apprenticeship Program Summary/Guidelines.....	2
Competency Analysis Profile.....	5
Preface.....	11
Definitions.....	12
Important Directions for the Apprentice.....	14
Important Directions for the Sponsor/Employer and Supervisor/Trainer.....	14
Notice/Declaration for Collection of Personal Information.....	15
Roles and Responsibilities of the Apprentice, Sponsor/Employer, and Supervisor/Trainer.....	16
Skill Set Completion Form.....	18

SKILL SETS

6040.0	Protect Self and Others.....	20
6041.0	Work in a Safe Environment.....	24
6042.0	Plan Job.....	27
6043.0	Remove Woody Plants in Proximity to Energized Electrical Apparatus.....	31
6044.0	Prune Woody Plants in Proximity to Energized Electrical Apparatus.....	34
6045.0	Climb Trees and Work at Heights in Proximity to Energized Electrical Apparatus.....	36
6046.0	Prune/Remove Trees (with aerial device) in Proximity to Energized Electrical Apparatus.....	42
6047.0	Control Underbrush in Proximity to Energized Electrical Apparatus.....	46
6048.0	Maintain Aerial Device.....	49
6049.0	Maintain Chainsaw.....	53
6050.0	Maintain and Operate Chipper.....	56
6051.0	Clear Vegetation in Proximity to Transmission Voltage Conductors.....	58
Apprentice Record.....		63
Apprentice Completion Form.....		64

APPRENTICESHIP PROGRAM SUMMARY/GUIDELINES

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

- plans job
- removes woody plants in proximity to energized electrical apparatus
- prunes woody plants in proximity to energized electrical apparatus
- climbs trees and work at heights in proximity to energized electrical apparatus
- prunes/remove trees in proximity to energized electrical apparatus
- controls underbrush in proximity to energized electrical apparatus
- maintains aerial device
- maintains chainsaw
- maintains and operates chipper
- clears vegetation in proximity to transmission voltage conductors

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

2. **Program Guidelines**

- **On-the-Job Training Duration (*for apprentices*)**
The Industry Committee has identified **5340** hours as the duration generally necessary for any apprentice to become competent in the skills required. There may be individual circumstances in which 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 journeyman-to-apprentice ratio of one journeyman or individuals who are deemed equivalent to a journeyman status to two apprentices as the ratio generally necessary for an apprentice to be properly trained on the job in this program. There may be individual circumstances in which 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 a 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;
- demonstrate that he or she has acquired **6000** hours of on-the-job training.

(See ACA Policy 150, Assessing Applicants for the Certificate of Qualification.)
Mandatory Modules: 6040.0; 6041.0; 6042.0; 6043.0; 6044.0; 6045.0; 6046.0; 6048; 6049; 6050.0

▪ **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.

(See ACA Policy 309, Completion of an Apprenticeship Program.)

▪ **Other Information**

A Certificate of Qualification may be issued to a person who has successfully completed an apprenticeship program approved by the Director for the trade of Utility Arborist and who has passed the certificate examination or achieved a grade satisfactory to the Director on an examination approved by the Director.

A Certificate of Apprenticeship may be issued, without an examination, to a person who has successfully completed both the on-the-job and in-class portions of the Utility Arborist apprenticeship program.

Exemption in part or all of the formal off-the-job learning requirements may only be granted through the passing of exemption tests. An exemption test can only be written once. However, in special circumstances, such as medical emergency, an individual may rewrite an exemption test.

- **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 Standard or Schedules of Training
- ACA Program and Policy Manual

- **Other Required Certification**

N/A

- **Academic Background**

Industry has identified relevant secondary-school course(s) likely to increase an individual's chances of success if completed before program entry. For details, see the document Apprenticeship Subject Pathways.

**COMPETENCY ANALYSIS PROFILE
Utility Arborist – 444B**

(All unshaded skill sets must be demonstrated/completed.)

SKILL SETS

SKILLS

PROTECT SELF AND OTHERS	Comply with federal, provincial, and municipal legislation and regulations.	Select, adjust, maintain, and wear appropriate eye protection.	Select, adjust, maintain, and wear appropriate face protection.	Select, adjust, maintain, and wear appropriate head protection.	Select, adjust, maintain, and wear appropriate hearing protection.
6040.0	6040.01	6040.02	6040.03	6040.04	6040.05
	Select, maintain, and wear appropriate hand protection.	Select, adjust, maintain, and wear appropriate foot protection.	Select, adjust, maintain, and wear appropriate chainsaw safety pants or chaps.	Select, inspect, and wear rubber gloves.	Select, adjust, maintain, and wear a work-positioning system.
	6040.06	6040.07	6040.08	6040.09	6040.10
	Select, adjust, maintain, and wear appropriate flame-resistant clothing.	Mount and dismount equipment.	Select, inspect, and use hand tools and tree-maintenance equipment.	Establish and maintain appropriate safe distances.	
	6040.11	6040.12	6040.13	6040.14	

WORK IN A SAFE ENVIRONMENT	Identify climatic extremes.	Identify potential hazards in trees.	Identify potential hazards in adjacent trees.	Identify unstable ground conditions.	Identify potential hazards of overhead structures and utilities.
6041.0	6041.01	6041.02	6041.03	6041.04	6041.05
	Identify potential electrical hazards.	Identify handling, storage, and disposal of all hazardous materials.	Follow required fire procedures	Communicate on the worksite.	Identify potential public hazards.
	6041.06	6041.07	6041.08	6041.09	6041.10
	Monitor worksite conditions.				
	6041.11				

UTILITY ARBORIST

PLAN JOB 6042.0	Interpret all job documents.	Control worksite vehicular and pedestrian traffic.	Identify woody plants.	Identify hazardous plant material.	Control worksite hazards.
	6042.01	6042.02	6042.03	6042.04	6042.05
	Select tools, equipment, supplies, and personnel.	Plan work sequence and method.	Communicate job plan and changes.	Identify electrical hazards.	Identify voltage levels.
	6042.06	6042.07	6042.08	6042.09	6042.10
Identify required barriers.	Establish barriers to energized apparatus.	Identify and request work protection.	Establish and maintain communications with controlling authority.	Identify and request hold-offs.	
6042.11	6042.12	6042.13	6042.14	6042.15	
Identify required equipment and procedures.					
6042.16					

REMOVE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS 6043.0	Identify woody plants to be removed.	Identify hazards.	Select removal method.	Select and inspect required tools and equipment.	Prepare woody plant felling area.
	6043.01	6043.02	6043.03	6043.04	6043.05
	Inspect and set up required tools and equipment.	Fell woody plants.	Perform sectional removal of woody plants.	Buck and limb felled woody plants.	Handle and/or dispose of woody plant materials.
6043.06	6043.07	6043.08	6043.09	6043.10	
Maintain and store tools and equipment.	Identify hazards associated with trees under tension or compression.				
6043.11	6043.12				

UTILITY ARBORIST

PRUNE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS 6044.0	Identify woody plants to be pruned.	Select pruning methods.	Select and inspect tools and equipment.	Remove unwanted limbs and branches.	Inspect worksite.
	6044.01	6044.02	6044.03	6044.04	6044.05
	Handle and/or dispose of woody plant material.	Maintain and store all tools and equipment.			
	6044.06	6044.07			

CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS 6045.0	Select, inspect, and maintain conventional fall-protection systems.	Select, inspect, and maintain split-tail fall-protection systems.	Wear and adjust conventional fall-protection systems.	Wear and adjust split-tail fall-protection systems.	Tie, dress, and set friction knots.
	6045.01	6045.02	6045.03	6045.04	6045.05
	Ties, 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.
	6045.06	6045.07	6045.08	6045.09	6045.10
	Ascend trees without spurs.	Ascend trees with spurs.	Reposition climbing line.	Secure self at work location.	Select, inspect, and maintain tree-rigging equipment.
	6045.11	6045.12	6045.13	6045.14	6045.15
Raise, lower, and secure tools and equipment.	Operate tree-pruning tools aloft.	Control movement of cut limbs and trunk sections with rigging systems.	Control movement of cut limbs and trunk sections without rigging systems.	Inspect tree aloft.	
6045.16	6045.17	6045.18	6045.19	6045.20	
Descend tree with spurs.	Descend tree without spurs.	Respond to emergency situations.	Perform aerial rescue.		
6045.21	6045.22	6045.23	6045.24		

UTILITY ARBORIST

PRUNE/REMOVE TREES (WITH AERIAL DEVICE) IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS 6046.0	Conduct pre-operational checks on aerial device. 6046.01	Set up aerial device. 6046.02	Select, adjust, inspect, and wear fall-protection systems. 6046.03	Perform aerial device rescue. 6046.04	Perform aerial device bucket evacuation. 6046.05
	Load tools, equipment, and materials into bucket. 6046.06	Access aerial device bucket and secure fall-protection system. 6046.07	Operate aerial device controls. 6046.08	Access desired work location. 6046.09	Transfer self from aerial device to tree. 6046.10
	Operate tools aloft. 6046.11	Perform sectional removal of woody plants. 6046.12	Control movement of cut limbs and trunk sections. 6046.13	Select, inspect, and maintain tree-rigging equipment. 6046.14	Maintain, inspect, and operate live-line tools. 6046.15
	Secure aerial device for travel. 6046.16				

CONTROL UNDERBRUSH IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS 6047.0	Identify underbrush. 6047.01	Select removal method. 6047.02	Select and inspect tools and equipment. 6047.03	Maintain underbrush equipment. 6047.04	Prepare underbrush-felling area. 6047.05
	Inspect and set up tools and equipment. 6047.06	Fell underbrush. 6047.07	Handle and/or dispose of underbrush materials. 6047.08	Maintain and store tools and equipment. 6047.09	Identify hazards associated with underbrush under tension or compression. 6047.10
	Apply herbicide treatment. 6047.11				

UTILITY ARBORIST

MAINTAIN AERIAL DEVICE 6048.0	Conduct scheduled checks of aerial device.	Perform an emergency lowering of aerial device.	Clean and inspect booms.	Clean and inspect structural components.	Clean and inspect basket and liner.
	6048.01	6048.02	6048.03	6048.04	6048.05
	Inspect hydraulic system.	Inspect hydraulic reservoir.	Inspect outriggers, pads, or stabilizers.	Lubricate all components.	Inspect fall-protection anchor point.
	6048.06	6048.07	6048.08	6048.09	6048.10
	Check all warning labels.	Check aerial device evacuating equipment or system.	Check and lubricate aerial device levelling system.	Check all test stickers or documentation.	
	6048.11	6048.12	6048.13	6048.14	

MAINTAIN CHAINSAW 6049.0	Perform routine repair and maintenance of chainsaw.	Service chainsaw bars.	Sharpen chains.	Adjust chain tension.	Refill fuel and chain lubricant reservoirs.
	6049.01	6049.02	6049.03	6049.04	6049.05
	Start/stop chainsaw.	Set engine idle speed.	Check chain brake function at operational speed.	Test chainsaw after maintenance.	Store chainsaw and accessories.
	6049.06	6049.07	6049.08	6049.09	6049.10

MAINTAIN AND OPERATE CHIPPER 6050.0	Secure chipper for transportation.	Conduct pre-operational checks.	Set up and start up chipper.	Conduct operational checks.	Feed chipper.
	6050.01	6050.02	6050.03	6050.04	6050.05
	Shut down chipper.	Perform an emergency shutdown.	Store chipper.	Perform preventative maintenance.	
	6050.06	6050.07	6050.08	6050.09	

UTILITY ARBORIST

CLEAR VEGETATION IN PROXIMITY TO TRANSMISSION VOLTAGE CONDUCTORS 6051.0	Identify right of way.	Identify system information.	Establish communications systems.	Perform condition patrol inspecting.	Identify equipment and tools.
	6051.01	6051.02	6051.03	6051.04	6051.05
	Identify right-of-way access points.	Identify required permits	Comply with environmental regulations.	Identify emergency response plan requirements.	Complete tailboard sheet.
	6051.06	6051.07	6051.08	6051.09	6051.10
	Measure tree and conductor heights.	Determine compatibility of vegetation.	Prune trees in proximity of electrical apparatus.	Remove trees.	Treat screens and buffers.
6051.11	6051.12	6051.13	6051.14	6051.15	
Maintain right-of-way access points.	Assess and record right of way conditions.	Determine vegetation-control methods.	Demonstrate herbicide-application techniques.		
6051.16	6051.17	6051.18	6051.19		

PREFACE

The Utility Arborist Apprenticeship Program is intended for training of workers who undertake any work required to prune or clear woody plants in proximity (3 metres from 750 volts to 150 000 volts, 4.5 metres up to 250 000 volts, and 6 metres for more than 250 000 volts) to exposed energized electrical apparatus in the course of utility-line clearing operations. The program includes maintenance and operation of tools and equipment associated with line-clearing operations.

This Training Standard was developed by the Workplace Training Branch of the Ministry of Training, Colleges and Universities (MTCU), in partnership with the Industry Committees and in consultation with representatives from the industry. This document is intended to be used by the apprentice, supervisor/trainer, and employer as a “blueprint” for training and certification requirements and as an acknowledgement of training completion.

This training document becomes the apprentice’s only record of workplace training performance.

The supervisor/trainer and apprentice are required to sign off on and date the skills following each successful completion, unless a skill is shaded (optional).

The care and maintenance of this training document are the joint responsibility of the apprentice and the sponsor/employer. By signing off on the skill, the supervisor/trainer and the apprentice are indicating that the apprentice has demonstrated competence in the skill. This Training Standard has been developed specifically for documenting the apprentice’s acquisition of skills of the trade.

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 (www.collegeoftrades.ca) for the most accurate and up-to-date information about the College. For information on OCTAA and its regulations, please visit: www.collegeoftrades.ca/about/legislation-and-regulations.

DEFINITIONS

ACA

Apprenticeship and Certification Act, 1998

Certificate of Apprenticeship (C of A)

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

Certificate of Qualification (C of Q)

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)

Describes a set of skills that includes 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, an occupation, or a craft as attested to by a provincial or territorial authority

Mandatory

Status assigned to unshaded individual skills, skill sets, or general performance objectives that must be signed off on to demonstrate that the apprentice has completed the program

Optional

Status assigned to shaded individual skills, skills sets, or general performance objectives for which sign-off is not required for the apprentice to complete the program but that may be tested on examination for certification

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 Objectives, 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 the sponsor/employer of record

Sponsor/Employer

A person who 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

The sponsor or employer documented as the signatory to the current training agreement or contract. For sponsors/employers 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 that have been identified by Provincial Advisory Committees (PACs) or Industry Committees (ICs) as being required for the trade.

Supervisor

An individual who oversees the execution of a task or the 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 that describe how well an apprentice must perform each skill in order to become competent. By using the document, trainers will be able to ensure that the apprentice is developing skills detailed for the occupation.

IMPORTANT DIRECTIONS

For the Apprentice

1. All completed skills or skill sets must be signed and dated by both the apprentice and the 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 fulfilment 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.

For the Sponsor/Employer and Supervisor/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 that 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.

By 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 on 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/DECLARATION FOR 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 AND RESPONSIBILITIES OF THE APPRENTICE, SPONSOR/EMPLOYER,
AND SUPERVISOR/TRAINER**

Apprentice “Apprenticeship is learning on the job.”

- Practise 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 on the skill/skill sets on successful completion the competency.

Sponsor/Employer “Training is an investment.”

- Demonstrate safe work habits.
- Attest to successful achievement by signing off on the skill/skills sets.
- Provide opportunities and time for the apprentice to learn the trade.
- Offer practical trade training experiences that cover all 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 the supervisor/trainer in developing the training plan.
- Use the Training Standard as a monitoring tool and part of regular performance evaluations.
- Select supervisors/trainers who have good communication skills and who work well with others.
- Encourage supervisors/trainers to take upgrading courses (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. By 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 continual feedback.
- Sign off on 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 whenever 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
6040.0	PROTECT SELF AND OTHERS	
6041.0	WORK IN A SAFE ENVIRONMENT	
6042.0	PLAN JOB	
6043.0	REMOVE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS	
6044.0	PRUNE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS	
6045.0	CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS	
6046.0	PRUNE/REMOVE TREES (WITH AERIAL DEVICE) IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS	
6047.0	CONTROL UNDERBRUSH IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS	
6048.0	MAINTAIN AERIAL DEVICE	
6049.0	MAINTAIN AND OPERATE CHAINSAW	
6050.0	MAINTAIN AND OPERATE CHIPPER	
6051.0	CLEAR VEGETATION IN PROXIMITY TO TRANSMISSION VOLTAGE CONDUCTORS	

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 on for completion of the on-the-job component of the apprenticeship.
- The in-school curriculum learning outcomes will cover all 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.

6040.0 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 approved eye, face, head, hearing, hand, and foot protection and chainsaw safety pants or chaps; selecting, inspecting, and wearing rubber gloves; selecting, adjusting, maintaining, and wearing a work-positioning system and appropriate fire-retardant clothing; mounting and dismounting equipment; selecting, inspecting, and using hand tools and tree-maintenance equipment; and establishing and maintaining appropriate safe distances.

PERFORMANCE OBJECTIVES

SKILLS

6040.01 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

6040.02 Select, adjust, maintain, and wear appropriate eye protection, according to the circumstances, ensuring correct fit and optimum protection during all job operations, to protect self from eye injury.

Date Completed	Apprentice	Supervisor/Trainer

6040.03 Select, adjust, maintain, and wear appropriate face protection, according to the circumstances, ensuring correct fit and optimum protection during all job operations, to protect self from facial injury.

Date Completed	Apprentice	Supervisor/Trainer

6040.0 PROTECT SELF AND OTHERS (cont.)

6040.04 Select, adjust, maintain, and wear appropriate head protection, according to the circumstances, ensuring correct fit and optimum protection during all job operations, to protect self from head injury.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6040.05 Select, adjust, maintain, and wear appropriate hearing protection, according to the circumstances, 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

6040.06 Select, maintain, and wear appropriate hand protection, according to the circumstances, ensuring correct fit and optimum protection during all job operations, to protect self from hand injury.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6040.07 Select, adjust, maintain, and wear appropriate foot protection, according to the circumstances, ensuring correct fit and optimum protection during all job operations, to protect self from foot injury.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6040.08 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

6040.0 PROTECT SELF AND OTHERS (cont.)

6040.09 Select, inspect, and wear rubber gloves, according to manufacturers' instructions and legislated requirements, to protect self from injury.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6040.10 Select, adjust, maintain, and wear a work-positioning system, appropriate to the circumstance, ensuring correct fit, to protect self from injury.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6040.11 Select, adjust, maintain, and wear appropriate flame-resistant clothing as required, ensuring correct fit and optimum protection, to protect self from injury.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6040.12 Mount and dismount equipment, using the three-point contact method, to prevent personal injury.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6040.13 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
----------------	------------	--------------------

6040.0 PROTECT SELF AND OTHERS (cont.)

6040.14 Establish and maintain appropriate safe distances, including limits of approach to exposed electrical apparatus, between self, others, and equipment during line-clearing operations, to protect self and others from injury.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6041.0 WORK IN A SAFE ENVIRONMENT

GENERAL PERFORMANCE OBJECTIVE

Work in a safe environment by: identifying climatic extremes; identifying potential hazards in trees and adjacent trees; identifying unstable ground conditions; identifying potential hazards of overhead structures and utilities; identifying potential electrical hazards; identifying handling, storage, and disposal of all materials hazards; following required fire procedures; communicating on the worksite; identifying potential public hazards; and monitoring worksite conditions.

PERFORMANCE OBJECTIVES

SKILLS

6041.01 Identify climatic extremes, including wind, lightning, temperature, and precipitation, as they affect line-clearing operations, to ensure personal safety and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6041.02 Identify potential hazards in trees, including hangers, deadwood, foreign bodies, and structural deficiencies, by visual inspection, to establish worksite safety.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6041.03 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

6041.0 WORK IN A SAFE ENVIRONMENT (cont.)

6041.04 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

6041.05 Identify potential hazards of overhead structures and utilities, through visual inspection, to ensure personal and worksite safety.

Date Completed

Apprentice

Supervisor/Trainer

6041.06 Identify potential electrical hazards, through visual inspection, to ensure personal and worksite safety.

Date Completed

Apprentice

Supervisor/Trainer

6041.07 Identify handling, storage, and disposal of all hazardous materials, including motor fuel, lubricants, and cleaning solvents, to protect self and others from injury.

Date Completed

Apprentice

Supervisor/Trainer

6041.08 Follow required fire procedures, by identifying potential fire hazards and complying with related regulations, to protect self and others.

Date Completed

Apprentice

Supervisor/Trainer

6041.0 WORK IN A SAFE ENVIRONMENT (cont.)

6041.09 Communicate on the worksite, by oral, written, hand signal, and/or electronic means, to protect self and others.

Date Completed

Apprentice

Supervisor/Trainer

6041.10 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

6041.11 Monitor worksite conditions, by identifying changes in climatic conditions and personnel activities, to maintain a safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6042.0 PLAN JOB

GENERAL PERFORMANCE OBJECTIVE

Plan job by: interpreting all job documents; controlling worksite 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 electrical hazards, voltage levels, and required barriers; establishing barriers to energized apparatus; identifying and requesting work protection; establishing and maintaining communications with controlling authority; identifying and requesting hold-offs; and identifying required equipment and procedures.

PERFORMANCE OBJECTIVES

SKILLS

6042.01 Interpret all job documents, including work orders, plans, and specifications, to determine the scope of work and equipment required, to ensure the safety and efficiency of the worksite.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.02 Control worksite vehicular and pedestrian traffic, by using appropriate devices, to maintain safe job conditions for self and others.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.03 Identify woody plants, according to species and locations as specified in job requirements, to meet job objectives.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.0 PLAN JOB (cont.)

6042.04 Identify hazardous plant material, according to species, to protect self and others.

Date Completed

Apprentice

Supervisor/Trainer

6042.05 Control worksite hazards, by using appropriate barriers, to maintain a safe work environment.

Date Completed

Apprentice

Supervisor/Trainer

6042.06 Select tools, equipment, supplies, and personnel according to work to be performed, to ensure safe and efficient job operations.

Date Completed

Apprentice

Supervisor/Trainer

6042.07 Plan work sequence and method, by assessing identified hazards, worksite conditions, and job requirements, to ensure safe job conditions for self and others.

Date Completed

Apprentice

Supervisor/Trainer

6042.08 Communicate job plan and changes, by written and verbal means to all personnel, to ensure safe job conditions for self and others.

Date Completed

Apprentice

Supervisor/Trainer

6042.0 PLAN JOB (cont.)

6042.09 Identify electrical hazards, including touch potential, step potential, and induction potential, on an ongoing basis by using appropriate electrical system information, to ensure a safe work area.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.10 Identify voltage levels, through maps, drawings, or controlling authority, prior to commencing work, to ensure correct application of the limits of approach to the work area.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.11 Identify required barriers, including limits of approach, cover-up, live-line tools, rubber gloves, Utility Work Protection Code, and insulated aerial device, on an ongoing basis and according to applicable legislation, to ensure safe work environment.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.12 Establish barriers to energized apparatus, including limits of approach, cover-up, live-line tools, rubber gloves, Utility Work Protection Code, and insulated aerial device, on an ongoing basis and according to applicable legislation, to ensure safe work environment.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.13 Identify and request work protection, as required and according to controlling authorities' policies and procedures, to ensure safe worksite.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6042.0 PLAN JOB (cont.)

6042.14 Establish and maintain communications with controlling authority, through electronic means, to protect self and others.

Date Completed

Apprentice

Supervisor/Trainer

6042.15 Identify and request hold-offs, as required and according to controlling authorities' policies and procedures, to ensure safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

6042.16 Identify required 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

6043.0 REMOVE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS

GENERAL PERFORMANCE OBJECTIVE

Remove woody plants in proximity to energized electrical apparatus by: identifying woody plants to be removed; identifying hazards; selecting removal method; selecting and inspecting required tools and equipment; preparing woody plant felling area; inspecting and setting up required tools and equipment; felling woody plants; performing sectional removal of woody plants; bucking and limbing felled woody plants; handling and/or disposing of woody plant materials; maintaining and storing tools and equipment; and identifying hazards associated with trees under tension or compression.

PERFORMANCE OBJECTIVES

SKILLS

6043.01 Identify woody plants to be removed, by confirming plant species, worksite location, and cycle clearance requirements, to comply with job work orders/specifications.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6043.02 Identify hazards, by inspecting woody plants for root, stem, and crown defects, to determine safe and efficient removal methods.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6043.03 Select removal methods, including sectionalizing and free fall, according to plant type, worksite conditions, job requirements, and potential hazards, to ensure safe and efficient job performance.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6043.0 REMOVE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6043.04 **Select and inspect required tools and equipment**, including chainsaws, rigging equipment, ropes, and friction devices, according to job/worksite conditions and method selected, to ensure safe and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6043.05 **Prepare woody plant felling area**, by securing worksite, by eliminating/controlling hazards, and by establishing an escape route, to ensure safe and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6043.06 **Inspect and set up required tools and equipment**, according to applicable legislation, manufacturers' specifications, and methods selected, to ensure safe and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6043.07 **Fell woody plants**, using a predetermined method, to ensure safe and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6043.08 **Perform sectional removal of woody plants**, according to methods selected and by using tools and equipment selected, including chainsaws, aerial device, and climbing and rigging techniques, to ensure safe and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6043.0 REMOVE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6043.09 Buck and limb felled woody plants, according to methods selected and by using tools and equipment selected, including chainsaws, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6043.10 Handle and/or dispose of woody plant materials, according to methods and equipment selected, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6043.11 Maintain and store tools and equipment, including chainsaws and rigging equipment, according to government regulations and manufacturers' specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6043.12 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

Sponsor/Employer Name

Sponsor/Employer Signature

6044.0 PRUNE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS

GENERAL PERFORMANCE OBJECTIVE

Prune woody plants in proximity to energized electrical apparatus by: identifying woody plants to be pruned; selecting pruning methods; selecting and inspecting tools and equipment; removing unwanted limbs and branches; inspecting worksite; handling and/or disposing of woody plant materials; and maintaining and storing all tools and equipment.

PERFORMANCE OBJECTIVES

SKILLS

6044.01 Identify woody plants to be pruned, by confirming plant species, plant characteristics, worksite location, and cycle clearances required, to comply with job work orders/specifications.

Date Completed

Apprentice

Supervisor/Trainer

6044.02 Select pruning methods, including side pruning, undercutting, crown-reduction pruning, and overhang pruning, according to hazards present and work to be completed, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6044.03 Select and inspect tools and equipment, including handsaws, hand pruners, chainsaws, loppers, and pole saws, according to job/worksite conditions and predetermined pruning methods, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6044.0 PRUNE WOODY PLANTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6044.04 Remove unwanted limbs and branches, by using chainsaws, pole saws, handsaws, pole pruners, and other pruning tools, according to predetermined pruning methods, to achieve desired results, safely and efficiently.

Date Completed

Apprentice

Supervisor/Trainer

6044.05 Inspect worksite, on completion of work, to ensure no visible hazards remain, including hangers, to ensure a safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

6044.06 Handle and/or dispose of woody plant materials, according to predetermined methods and equipment, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6044.07 Maintain and store all tools and equipment, according to government regulations and manufacturers' specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6045.0 CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS

GENERAL PERFORMANCE OBJECTIVE

Climb trees and work at heights by: selecting, inspecting, and maintaining conventional fall-protection systems and split-tail fall-protection systems; wearing and adjusting conventional fall-protection systems and split-tail fall-protection systems; tying, dressing, and setting friction knots and termination knots; inspecting tree; selecting and assessing interim and final anchor points; placing climbing rope into interim anchor location; ascending trees without spurs; repositioning climbing line; securing self at 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 without rigging equipment, inspecting trees aloft; descending trees with and without spurs; responding to emergency situations; and performing aerial rescue.

PERFORMANCE OBJECTIVES

SKILLS

6045.01 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), and manufacturers’ specifications and climbing circumstances, to protect self from injury.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6045.02 Select, inspect, and maintain split-tail fall-protection systems, including arborist saddle, spurs, ropes, work-positioning lanyards, mechanical fall arrestors, and connecting devices, according devices according to CSA, ANSI, and manufacturers’ specifications and climbing circumstances, to protect self from injury.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6045.0 CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6045.03 **Wear and adjust conventional fall-protection systems**, including arborist saddle, spurs, ropes, work-positioning lanyards, and connecting devices, according to manufacturers' specifications and climbing circumstances, to protect self from injury.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6045.04 **Wear and adjust split-tail fall-protection systems**, including arborist saddle, spurs, ropes, work-positioning lanyards, and connecting devices, according to manufacturers' specifications and climbing circumstances, to protect self from injury.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6045.05 **Tie, dress, and set friction knots**, including Taut Line Hitch, Blake's Hitch, Swabbish Hitch, Gripping Hitch, Klemheist, and Prussic (6 coil), before ascending and according to climbing situations, to protect self from injury.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6045.06 **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, before ascending and according to climbing situations, to protect self from injury.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6045.07 **Inspect tree**, including, root zone, trunk, and crown, before climbing, for structural defects, rots, decay, fruiting bodies, grade changes, conks, deadwood, dieback, abnormal growth, missing sections, and 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 safe and efficient access within the tree.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6045.0 CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6045.08 **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, and location of limb, to ensure safe and efficient access to anchor locations.

Date Completed

Apprentice

Supervisor/Trainer

6045.09 **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, and location for work within the tree, to ensure safe and efficient access to final anchor location.

Date Completed

Apprentice

Supervisor/Trainer

6045.10 **Place climbing rope into interim anchor location**, by using various methods, including rope-poking tool, pole pruner, and throw line, to ensure a safe and efficient ascent.

Date Completed

Apprentice

Supervisor/Trainer

6045.11 **Ascend trees without spurs**, according to fall-protection systems and circumstance, by 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

6045.0 CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6045.12 Ascend trees with spurs, according to fall-protection systems and circumstance, by 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

6045.13 Reposition climbing line, by utilizing fall-protection systems, including double-crotching technique and work-positioning lanyard, to ensure safe and efficient ascent.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6045.14 Secure self at work location, by utilizing secondary fall-protection systems, including work-positioning lanyard and double-crotching technique, to ensure safe work positioning.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6045.15 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

6045.16 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

6045.0 CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6045.17 Operate tree-pruning tools aloft, including chainsaws, pole pruners, handsaws, and rigging equipment, according to methods selected, to ensure safe and efficient job performance.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6045.18 Control movement of cut limbs and trunk sections with rigging systems, including ropes, pulleys, and slings, to ensure safe and efficient job operations.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6045.19 Control movement of cut limbs and trunk sections without rigging systems, by using manual manipulation and free falling, to ensure safe and efficient job operations.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6045.20 Inspect tree aloft, visually, before final descent from tree, to ensure no visible hazards, including hangers, remain and desired results are achieved.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6045.21 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
----------------	------------	--------------------

6045.0 CLIMB TREES AND WORK AT HEIGHTS IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6045.22 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

6045.23 Respond to emergency situations, 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

6045.24 Perform aerial rescue, by using appropriate methods, to enable rescue of injured or disabled worker,

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6046.0 PRUNE/REMOVE TREES (WITH AERIAL DEVICE) IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS

GENERAL PERFORMANCE OBJECTIVE

Prune/remove trees (with aerial device) in proximity to energized electrical apparatus by: conducting pre-operational checks and setting up aerial device; selecting, adjusting, maintaining, and wearing fall-protection systems; performing aerial device rescue and bucket evacuation; loading tools, equipment, and materials into bucket; accessing aerial device bucket and securing fall-protection system; operating aerial device controls; accessing desired work location; transferring self from aerial device to tree; operating tools aloft; performing sectional removal of woody plants; controlling movement of cut limbs and trunk sections; selecting, inspecting, and maintaining tree-rigging equipment; maintaining, inspecting, and operating, live-line tools; and securing aerial device for travel.

PERFORMANCE OBJECTIVES

SKILLS

6046.01 Conduct pre-operational checks on aerial device, including holding valves, boom and basket, emergency rescue equipment, and spill kit, according to manufacturers' instructions and legislated requirements, to ensure safe and efficient operations.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.02 Set up aerial device, according to manufacturers' instructions and legislated requirements, to ensure safe operations.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.03 Select, adjust, inspect, and wear fall-protection systems, according to manufacturers' instructions and legislated requirements, to ensure safe operations.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.0 PRUNE/REMOVE TREES (WITH AERIAL DEVICE) IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6046.04 Perform aerial device rescue, by using appropriate methods, to enable safe rescue of injured or disabled operator.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.05 Perform aerial device bucket evacuation, by using appropriate methods, to ensure safe worker evacuation.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.06 Load tools, equipment, and materials into bucket, according to job requirements, manufacturers' instructions, and legislated requirements, to ensure safe and efficient operations.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.07 Access aerial device bucket and secure fall-protection system, according to manufacturers' instructions and legislative requirements, to ensure safe operation.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.08 Operate aerial device controls, according to manufacturers' instructions, in an efficient manner.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.09 Access desired work location, according to predetermined work plan, in a safe and efficient manner.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.0 PRUNE/REMOVE TREES (WITH AERIAL DEVICE) IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6046.10 Transfer self from aerial device to tree, by using methods appropriate to the circumstances and according to legislative requirements, to ensure safe operations.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.11 Operate tools aloft, including chainsaws, hydraulic tools, pole pruners, and handsaws, according to predetermined methods, to ensure safe and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.12 Perform sectional removal of woody plants, according to selected removal methods and rigging techniques, by using selected tools and equipment including chainsaws, ropes, and blocks, to ensure safe and efficient job performance.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.13 Control movement of cut limbs and trunk sections, with and without using rigging systems, to ensure safe and efficient job operations.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.14 Select, inspect, and maintain tree-rigging equipment, including ropes, carabiners, blocks, and friction devices, according to manufacturers' specifications, to ensure a safe and efficient worksite.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6046.0 PRUNE/REMOVE TREES (WITH AERIAL DEVICE) IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6046.15 Maintain, inspect, and operate live-line tools, including hydraulic tools, pole pruners, pole saws, and insulated links, according to manufacturers' instructions and legislated requirements, to ensure safe operations.

Date Completed

Apprentice

Supervisor/Trainer

6046.16 Secure aerial device for travel, according to manufacturers' instructions and legislated requirements, to ensure safe travel and to prevent equipment damage.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6047.0 CONTROL UNDERBRUSH IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS

GENERAL PERFORMANCE OBJECTIVE

Control underbrush in proximity to energized electrical apparatus by: identifying underbrush; selecting removal method; selecting and inspecting tools and equipment; maintaining underbrush equipment; preparing underbrush-felling area; inspecting and setting up tools and equipment; felling underbrush; handling and/or disposing of underbrush materials; maintaining and storing tools and equipment; identifying hazards associated with underbrush under tension and compression; and applying herbicide treatment.

PERFORMANCE OBJECTIVES

SKILLS

6047.01 Identify underbrush to be removed, by confirming plant species and worksite location, to comply with job work orders/specifications.

Date Completed

Apprentice

Supervisor/Trainer

6047.02 Select removal method, according to plant type, worksite conditions, job requirements, and potential hazards, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6047.03 Select and inspect tools and equipment, including clearing saws and chainsaws, according to job/worksite conditions and method selected, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6047.0 CONTROL UNDERBRUSH IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6047.04 Maintain underbrush equipment, including clearing saws and chainsaws, according to manufacturers' instructions, to ensure a safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

6047.05 Prepare underbrush-felling area, by securing worksite, eliminating/controlling hazards, and establishing an escape route, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6047.06 Inspect and set up tools and equipment, according to applicable legislation, manufacturers' specifications, and methods selected, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6047.07 Fell underbrush, by using a predetermined method, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6047.08 Handle and/or dispose of underbrush materials, according to methods and equipment selected, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6047.0 CONTROL UNDERBRUSH IN PROXIMITY TO ENERGIZED ELECTRICAL APPARATUS (cont.)

6047.09 Maintain and store tools and equipment, according to government regulations and manufacturers' specifications, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6047.10 Identify hazards associated with underbrush under tension or compression, including spring poles, to ensure a safe worksite.

Date Completed

Apprentice

Supervisor/Trainer

6047.11 Apply herbicide treatment, in accordance with legislative requirements and predetermined methods, to control regrowth of underbrush.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6048.0 MAINTAIN AERIAL DEVICE

GENERAL PERFORMANCE OBJECTIVE

Maintain aerial device by: conducting scheduled checks of aerial device; performing emergency lowering of aerial device; cleaning and inspecting booms, structural components, and basket and liner; inspecting hydraulic system; checking hydraulic reservoir; inspecting outriggers, pads, or stabilizers; lubricating all components; inspecting fall-protection anchor point; checking all warning labels; checking aerial device evacuating equipment or system; checking and lubricating aerial device levelling system; and checking all test stickers or documentation.

PERFORMANCE OBJECTIVES

SKILLS

6048.01 Conduct scheduled checks of aerial device, according to manufacturers' instructions and legislated requirements, to ensure personal safety and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6048.02 Perform an emergency lowering of aerial device, according to manufacturers' instructions, to ensure personal safety and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6048.03 Clean and inspect booms for cracks, wears, discoloration, and structural defects, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.0 MAINTAIN AERIAL DEVICE (cont.)

6048.04 Clean and inspect structural components for cracks, movement, and rust, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.05 Clean and inspect basket and liner for cracks and damage, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.06 Inspect hydraulic system for leaks, wear, and loose fittings, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.07 Check hydraulic reservoir for appropriate level, clean filters, and contaminants, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.08 Inspect outriggers, pads, or stabilizers for cracks, rust, or damage, according to manufacturers' instructions, to ensure safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.0 MAINTAIN AERIAL DEVICE (cont.)

6048.09 Lubricate all components, including pins, turret rotation, and bushings, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.10 Inspect fall-protection anchor point for wear and rust, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.11 Check all warning labels for legibility, according to manufacturers' instructions, to ensure safe operation and to protect self and others.

Date Completed

Apprentice

Supervisor/Trainer

6048.12 Check aerial device evacuating equipment or system, according to manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.0 MAINTAIN AERIAL DEVICE (cont.)

6048.13 Check and lubricate aerial device levelling system, according to the manufacturers' instructions, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

6048.14 Check all test stickers or documentation for legibility and current status, according to legislative requirements, to ensure a safe operation.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6049.0 MAINTAIN CHAINSAW

GENERAL PERFORMANCE OBJECTIVE

Maintain chainsaws by: performing routine repair and maintenance of chainsaw; servicing chainsaw bars; sharpening chains; adjusting chain tension; refilling fuel and chain lubricant reservoirs; starting/stopping chainsaw; setting engine idle speed; checking chain brake function at operational speed; testing chainsaw after maintenance; storing chainsaw, and accessories.

PERFORMANCE OBJECTIVES

SKILLS

6049.01 Perform routine repair and maintenance of chainsaw, including cleaning and lubricating, according to manufacturers' specifications, to enhance performance and safe running conditions.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6049.02 Service chainsaw bars, according to manufacturers' specifications, to ensure performance and safe running conditions.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6049.03 Sharpen chains, according to manufacturers' specifications, to maximize cutting efficiency.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6049.04 Adjust chain tension, according to manufacturers' specifications, to reduce wear, maximize cutting efficiency, and ensure safe operation.

_____	_____	_____
Date Completed	Apprentice	Supervisor/Trainer

6049.0 MAINTAIN CHAINSAW (cont.)

6049.05 Refill fuel and chain lubricant reservoirs, by using required products/mixes, according to manufacturers' specifications, to ensure safe and efficient performance.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6049.06 Start/stop chainsaw, according to manufacturers' specifications and required safety procedures, to ensure safe operation.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6049.07 Set engine idle speed, by using adjusting tools, to ensure chain is stationary while idling.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6049.08 Check chain brake function at operational speed, according to manufacturers' specifications, to ensure that the chain stops.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6049.09 Test chainsaw after maintenance, by performing a cut in wood, to confirm operational readiness.

Date Completed	Apprentice	Supervisor/Trainer
----------------	------------	--------------------

6049.0 MAINTAIN CHAINSAW (cont.)

6049.10 Store chainsaw and accessories, including fuel and chain bar lubrication, according to government regulations and manufacturers' specifications, to protect self and others.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6050.0 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 shutdown; storing chipper; and performing preventative maintenance.

PERFORMANCE OBJECTIVES

SKILLS

6050.01 Secure chipper for transportation, including connecting safety chains and/or tie-downs and signal lights as required, to ensure safe transportation and compliance with legislated requirements.

Date Completed

Apprentice

Supervisor/Trainer

6050.02 Conduct pre-operational checks, according to manufacturers' instructions and legislated requirements, to ensure safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

6050.03 Set up and start up chipper, according to manufacturers' instructions, to ensure safe and efficient operation.

Date Completed

Apprentice

Supervisor/Trainer

6050.04 Conduct operational checks by inspecting all safety and operational components to verify that they are in place and operational, to ensure safe and efficient operations.

Date Completed

Apprentice

Supervisor/Trainer

6050.0 MAINTAIN AND OPERATE CHIPPER (cont.)

6050.05 Feed chipper, according to manufacturers' operating procedures, to ensure safe and efficient operations.

Date Completed

Apprentice

Supervisor/Trainer

6050.06 Shut down chipper, according to manufacturers' operating procedures, to protect self and others.

Date Completed

Apprentice

Supervisor/Trainer

6050.07 Perform emergency shutdown, according to manufacturers' operating procedures, to achieve a quick shutdown.

Date Completed

Apprentice

Supervisor/Trainer

6050.08 Store chipper, according to manufacturers' short or long-term storing procedures, to provide for public and personnel safety.

Date Completed

Apprentice

Supervisor/Trainer

6050.09 Perform preventative maintenance, according to manufacturers' procedures, to ensure worker safety, to extend machine life, and to optimize machine performance.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

6051.0 CLEAR VEGETATION IN PROXIMITY TO TRANSMISSION VOLTAGE CONDUCTORS

GENERAL PERFORMANCE OBJECTIVE

Clear vegetation in proximity to transmission voltage by: identifying right-of-way and system information; establishing communication systems; conducting condition patrol; identifying equipment and tools; identifying right-of-way access points; identifying required permits; complying with environmental regulations; identifying emergency response plan requirements; completing tailboard sheet; measuring tree and conductor heights; determining compatibility of vegetation; pruning trees in proximity of electrical apparatus; removing trees; treating screens and buffers; maintaining right-of-way access points; assessing and recording right-of-way condition; determining vegetation-control methods; and demonstrating herbicide-application techniques.

PERFORMANCE OBJECTIVES

SKILLS

6051.01 Identify right-of-way, by using maps, drawings, and specifications, to determine location and access to worksite.

 Date Completed

 Apprentice

 Supervisor/Trainer

6051.02 Identify system information, including voltages, structures, and feeders, by using maps, drawings, and specifications, to ensure safe and efficient job performance.

 Date Completed

 Apprentice

 Supervisor/Trainer

6051.03 Establish communications systems with controlling authorities, other work groups, and emergency contacts, by using devices, including radio, cell phone, and satellite phone, to ensure a safe work environment.

 Date Completed

 Apprentice

 Supervisor/Trainer

6051.0 CLEAR VEGETATION IN PROXIMITY TO TRANSMISSION VOLTAGE CONDUCTORS (cont.)

6051.04 Conduct condition patrol, inspecting, recording information and treating immediate hazards to line integrity, including right-of-way widths and encroachments, access roads, alterations to right of way, water crossings, bridges, fords, culverts, visual inspection of structures and hardware, endangered wildlife species, density of vegetation, soil erosion, and screens, to ensure integrity of the electrical system.

Date Completed

Apprentice

Supervisor/Trainer

6051.05 Identify equipment and tools, including chainsaws, clearing saws, off-road equipment, and herbicides, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6051.06 Identify right-of-way access points, by using information, including maps, drawings, property-owner notifications, property agreements, easements, weather conditions, seasonal restrictions, and terrain conditions, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6051.07 Identify required permits, by using information, including maps and drawings, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6051.08 Comply with environmental regulations, including water crossings, spill management, buffer zones, erosion controls, roadways, herbicides, wildlife management, and forest fire regulations, to minimize environmental impacts from work operations.

Date Completed

Apprentice

Supervisor/Trainer

6051.0 CLEAR VEGETATION IN PROXIMITY TO TRANSMISSION VOLTAGE CONDUCTORS (cont.)

6051.09 Identify emergency response plan requirements, including remote evacuation plans, first-aid response, communications systems, and survival plans, to ensure safe and efficient job performance.

Date Completed

Apprentice

Supervisor/Trainer

6051.10 Complete tailboard sheet, including identifying electrical hazards, other hazards, emergency plans, and hazardous plants, to ensure safe and efficient job operations.

Date Completed

Apprentice

Supervisor/Trainer

6051.11 Measure tree and conductor heights, by using tools, including live-line measuring sticks, laser range finders, and clinometers, to meet job objective.

Date Completed

Apprentice

Supervisor/Trainer

6051.12 Determine compatibility of vegetation, by using available information, including danger tree criteria, profile maps, condition survey data, species location, standing and falling clearances, and current Canadian Standards Association and controlling authority information, to ensure safe and efficient job operation.

Date Completed

Apprentice

Supervisor/Trainer

6051.13 Prune trees in proximity of electrical apparatus, by using appropriate live-line tools, including manual pole saws and pole pruners, to ensure safe and efficient job operation.

Date Completed

Apprentice

Supervisor/Trainer

6051.0 CLEAR VEGETATION IN PROXIMITY TO TRANSMISSION VOLTAGE CONDUCTORS (cont.)

6051.14 Remove trees, by using appropriate felling techniques and considering the value of any merchantable timber, to ensure safety and integrity of the electrical system.

Date Completed

Apprentice

Supervisor/Trainer

6051.15 Treat screens and buffers, by using appropriate arboricultural methods and live-line procedures, to retain positive customer relations.

Date Completed

Apprentice

Supervisor/Trainer

6051.16 Maintain right-of-way access points, including helicopter landing sites, roadways, and boat launches, using clear-cutting and selective danger tree removal, to ensure a safe workplace.

Date Completed

Apprentice

Supervisor/Trainer

6051.17 Assess and record right-of-way conditions during line-clearing operations, including right-of-way widths and encroachments, access roads, water crossings, bridges, fords, culverts, visual inspection of structures and hardware, and protected wildlife sites, to ensure integrity of the electrical system.

Date Completed

Apprentice

Supervisor/Trainer

6051.0 CLEAR VEGETATION IN PROXIMITY TO TRANSMISSION VOLTAGE CONDUCTORS (cont.)

6051.18 Determine vegetation-control methods, including herbicide application, cutting, and grubbing, by considering locations, including stations, buildings, generation facilities, and right of way; and conditions, including soil erosion, incompatible species, slope, and water, to ensure safety and integrity of the electrical system.

Date Completed

Apprentice

Supervisor/Trainer

6051.19 Demonstrate herbicide-application techniques, by using Integrated Vegetation Management principles and manufacturers' recommendations, including broadcast, stump, basal, soil sterilant, and stem foliar methods, to ensure worker and public safety and integrity of the electrical system.

Date Completed

Apprentice

Supervisor/Trainer

Sponsor/Employer Name

Sponsor/Employer Signature

APPRENTICE RECORD

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.

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 and instruction between dates of employment	

Signatures of:

Date Completed

Apprentice

Supervisor/Trainer

APPRENTICE COMPLETION FORM

APPRENTICE INFORMATION	
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 (Proof to Be Provided) Yes () No () Not applicable ()
(Explanation required)

Hours Completed as per Contract: Yes () No ()

SPONSOR/EMPLOYER INFORMATION	
Company Name	
Address	
Telephone	
E-mail Address	
Name of Signing Authority (Print)	
Signature of Signing Authority	