



The Prairie Arborist

The Official Publication of the ISA Prairie Chapter Issue 2 2018



Photo by Keith Anderson



Mimi Cole President

Well, here we are, in full swing again. TRAQ Edmonton - done - Arbor Day celebrations - done - EAB Workshop in Saskatoon - done- with more planned for the future. The first TRAQ one day renewal is coming up and just around the corner and the annual TCC, in Winnipeg in August. This promises to be another stellar event, highlighting the skills of our climbers. Along with the actual TCC, there is a 1-day Ascent Event workshop.as this will be the 1st year for this in competition, all registered competitors are required to attend. And not to forget about conference coming up in October, in Olds.

I hope to see many of you in Winnipeg and am wishing all a safe and lucrative summer, whether working or relaxing with family and friends.

M.J."Mimi" Cole

2018 ISA Annual International Conference & Trade Show
 5-8 August Columbus, Ohio with ITCC 3-5 August
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Ruth's Competition Saw donated by Arborist Supply, Calgary



Photo submitted by Mimi Cole - Rocky Mountain National Park-Estes Park, Colorado



Save the Date

Prairie Chapter
The 2018 Tree Climbing
Championship

Kildonan Park Winnipeg MB

August 25,26

Don't miss the
Ascent Event Live Demo on Friday August 24th

Save the Date

The Prairie Chapter
Annual Conference at the
Pomeroy Hotel in Olds
October 22,23

Don't miss the
"There's a Fungus Amungus" Conference

Save the Date

Tree Risk Assessment (TRAQ)
Workshop
Saskatoon September 10, 11, 12
Registration closes August 10
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TRAQ 2018

Save the Date

The Next Certification Exam
In the Prairie Chapter
Is planned for October 21

ISA Certified Arborist, Utility Specialist,
Municipal Specialist and
Certified Tree Worker Written Exam

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Save the Date

Tree Risk Assessment (TRAQ)
one day renewal and exam
Saskatoon September 13
Register Today

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Don't miss the annual Prairie Chapter Conference October 22 and 23 in Olds, Alberta. The theme of the conference is fungus. Both the good and the bad. Here is just a few of the presenters for the, There's a Fungus Among conference.

Chelsi Abbott



Both days will begin with Chelsi Abbott.

Chelsi is a Technical Advisor for the Midwest and Great Lakes region of U.S. and Canada with the Davey Institute, where she focuses on diagnostics, education and outreach, and research on subjects related to arboriculture.

She received her Master's degree of Science from Purdue University in Plant Pathology and her Bachelor's degree of Science from Central Michigan in Biological Sciences. She is from Woodstock, Ontario, Canada.

Don't miss

Dr. Ken Fry

Dr. Ken will look at some of the relationships and alliances between insects, fungus and trees.



Dr. Ken Fry, Coordinator for Horticulture and Entomology Instructor in the School of Animal Science & Horticulture at Olds College, has been involved in insect pest management research, teaching, and extension for over 25 years, including 9 years as a research scientist at the Alberta Research Council and 15 years at Olds College.

His research is focused on biological control of insect pests and integrated pest management. Ken is co-author, with Doug Macaulay and Don Williamson of "Garden Bugs of Alberta" and a contributing author to "Organic Farming on the Prairies"

And you can catch

Dwayne Neustaeter right there on his home turf as he takes a look at the technicalities of , and solutions to ,safely felling a tree that has been structurally compromised due to decay or other infestation. Dwayne Neustaeter is president, curriculum programmer and lead instructor of Arboriculture Canada Training & Education Ltd., an organization focusing on meeting the training and business needs of arborists and related industries. He instructs classes, seminars and hands on training programs on safety and a wide range of skills for arborists around the world. He is widely recognized for his upbeat speaking style, engaging learners and making learning fun.



As current member of the ISA BCMA Test Committee, past Society of Commercial Arboriculture President, past -president of the ISA Prairie Chapter, past committee member of the ISA Tree Risk Assessment Qualification Panel of Experts and ISA TRAQ instructor, Dwayne remains involved in associations and committees across North America to give back to the industry and continue learning.

And how about

Toso Bozic



Toso is an employee of Alberta Agriculture and Forestry Department. He has held this position for the past 18 years.

Toso graduated from the University of Belgrade in Yugoslavia and holds a degree in Forest Engineering. He has over 20 years of experience in forestry, bioenergy, agroforestry and woodlot management. He is author of several extension publications, several dozen fact sheets and many newspaper articles on bioenergy, woodlots and agroforestry. He gives over 60 presentation a year at various events.

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What is the Value in Becoming an ISA Certified Tree Worker Climber Specialist®

ISA Certification is a voluntary program that tests and certifies your achievement of a professional level of knowledge and skill in the field of arboriculture. When you become an ISA Certified Tree Worker Climber Specialist®, you are recognized by your peers, employers, and the public as a tree care professional who has attained a generally-accepted level of knowledge in areas such as safety, climbing, rigging, cabling, pruning, removal, and more.

Achieving ISA Certification also builds your self-image. By studying for and passing the certification exam, you demonstrate a dedication to your own professional development and the advancement of proper tree care practices. The process of becoming ISA Certified and maintaining the designation provides you with personal incentive to continue your arboricultural education and training. Presenting your ISA credential to potential employers makes you more competitive in the job market, and for employers, encouraging ISA Certification is a tool to assist in training their existing tree care personnel.

Which Areas of Knowledge Will the ISA Certified Tree Worker Climber Specialist® Exam Cover? The certifica-



tion examination was developed by a panel of industry experts representing all aspects of arboriculture. Questions were derived from a job task analysis survey filled out by arborists from around the world. Questions are continually analyzed by the ISA Certification Test Committee using the latest test statistics, and new questions are always being developed and tested for satisfactory performance. Updated examinations are created on a regular basis.

The written exam content is divided into eight areas of knowledge, and the percentage next to each area reflects the percentage of questions associated with that area. These are subject to change when a new job task analysis is completed for the exam.

1. Safety—18%
2. Removal—12%
3. Rigging—12%
4. Pruning—18%
5. Cabling—6%
6. Tree Sciences—10%
7. Tree Identification—10%
8. Electrical Hazard Awareness Program—14%

What is the Purpose of the Tree Climbing Skills Exam in Addition to the Written Exam?

The purpose of the tree climbing skills exam is to assess the applicant's ability to demonstrate the fundamental skills necessary to perform as a competent tree climber. The primary emphasis throughout the exam is safety.

What Are the Objectives of the ISA Certification Program?

ISA's objectives for offering professional credentials are to:

- Advance the knowledge and application of safe work practices in all arboricultural operations;
- Improve technical competency of personnel in the tree care industry;
- Create incentives for individuals to continue their professional development;
- provide the public and those in government with a means to identify professionals who have demonstrated by passing a professionally-developed exam that they have thorough knowledge and skill in tree care practices.

Who Is Eligible to Apply for the ISA Certified Tree Worker Climber Specialist® Exam?

The ISA Credentialing Council requires a candidate to

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**Trees are disappearing — and fast —
from American cities**
**From Oregon to Oklahoma, urban
trees are on the decline.**
By Matt Hickman

This story can be found in its original form at the Mother Nature Network

Just a couple of months after the U.S. Forest Service alerted us to the staggering economic benefits provided by pollutant-scrubbing, emission-reducing, carbon-sequestering, efficiency improving urban trees, the USFS is now back with some not-so-great news: the leafy multitaskers that make American cities, well, livable are in decline.

Or, more accurately, America's urban tree cover was in decline from 2009 to 2014, when it dropped from 40.4 percent to 39.4 percent. And while a new study headed by USFS scientists David Nowak and Eric Greenfield doesn't go as far as concluding that

the urban tree cover is currently shrinking, there's also no reason to believe that isn't the case based on past trends.

That being said, a 1 percent drop over a five-year period may not seem like a figure worth panicking about, especially when you don rose-colored glasses and assume that these lost trees have since been replaced. And in some cases they have.

But as Nowak and Greenfield's findings detail, a 1 percent drop when it comes to urban tree coverage is indeed a lot: roughly 175,000 acres decimated annually or a total of 36 million urban trees lost to disease, insect damage, development, storms and old age every year. What's more, the percentage of impervious cover in urban areas — rooftops, sidewalks, roads, parking lots and the like — increased from 25.6 percent to 26.6 percent during the same five-year period.

And just as previous studies have placed a price tag on the vast economic benefits that fast-growing cities can reap from urban trees, Nowak and Greenfield have given a conservative ballpark figure — a whopping \$96 million — to the economic losses associated with five years of steady urban tree decline.

Writing for Scientific American, Richard Conniff points out that this \$96 million loss only takes into consideration the aforementioned environmental benefits directly provided by trees: the removal of air pollution, increased energy efficiency due to increased shade, carbon sequestration and so on and so forth. Not taken into consideration are other significant, tree-related benefits including increased home values, reduced crime rates and happier, less stressed-out urbanites.

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Thinning urban canopies in states big and small. Naturally, urban tree decline varied from state to state during the duration of Nowak and Greenfield's Google Earth-aided study, which was recently published in the journal *Urban Forestry and Urban Greening*.

Twenty-two states experienced relatively small declines in tree cover while Alaska, Minnesota and Wyoming experienced no change in tree cover at all. Three states — New Mexico, Montana and Mississippi — experienced modest but encouraging increases in coverage. Still, 22 states along with the District of Columbia experienced what Nowak and Greenfield considered to be "statistically significant" declines in tree cover in both urban cores (1 percent) and the outlying suburbs (0.7 percent) of metro areas.

Per Nowak and Greenfield, the states with the greatest annual statistical decline of tree cover were Alabama (-0.32 percent), Oklahoma (-0.30 percent), Rhode Island (-0.44 percent), Oregon (-0.30 percent), Florida (-0.26 percent), Tennessee (-0.27 percent) and Georgia (-0.40 percent). Washington, D.C., also topped the list with a -0.44 percent decline.

In terms of the overall acreage of urban forest lost, three southeastern states — Georgia, Alabama and Florida — along with Texas each exceeded 10,000 acres annually.

Not counting gains or losses, Maine had the greatest percent of urban tree cover with 68.4 percent while North Dakota had the least with just 10.7 percent. But as Nowak explains to *Popular Science*, location always trumps size: "The trees in Montana might remove more air pollution than the trees in New York City, but the trees in New York City are more valuable because they are cleaning the air where people breathe, and reducing energy and air temperatures where people live and work. More than 80 percent of the U.S. population lives in urban areas. As a result, those trees are critical in terms of human health and well-being."

Tree-planting and America's 'quick fix' mentality. So what can be done in states with urban areas that are shedding vital trees at an alarming rate?

Scientific American notes that some cities, in concerted efforts to counter the urban heat island effect, limit air pollution and manage stormwater, have gone out of their way to increase their urban canopies.

But seemingly more often than not, these tree-planting campaigns don't go far enough. In some cities — including those that have launched popular "1 million trees" initiatives — the target number is never reached due to funding issues and/or waning enthusiasm. As a result, newly planted trees are simply outnumbered by trees that lost to disease, age and rampant development. In cities that do reach the million-tree mark, the trees in question are saplings that often don't get picked up by Google Earth imagery. Nowak suggests that with time, these young trees will make a difference.

Noting that American culture is "all about the quick fix," Deborah Marton of New York Restoration Project explains to *Scientific American* why urban tree-planting campaigns, however crucial and great for morale they may be, sometimes falter: "It's slow. It's not sexy. If you plant a new tree, that's exciting. If you water it for five years...maybe it will grow a few inches."

"There's almost no public health, crime or environmental quality metric that you can look at that isn't made better by the presence of trees," Marton goes on to note.

William Sullivan, head of the Landscape Architecture department at the University of Illinois at Urbana-Champaign, suggests that it would be helpful if cities with thinning canopies simply sat down and took time to consider the wide-ranging benefits of urban trees beyond just their aesthetic appeal. Sullivan believes that to be truly effective in an era of rising temperatures, wild weather and rampant urbanization, trees need to dominate the cityscape, not just be politely limited to parks and greenways. Cities need to be aggressive.

"Too many people think that living in closer contact with nature is nice, it's an amenity, it's good to have if you can afford it," he says. "They haven't got the message that it's a necessity. It's a critical component of a healthy human habitat."



Photo submitted by Mike Allen



Don't underestimate the life-saving power of urban trees

Study details the pollution-scrubbing, temperature-lowering qualities of the urban canopy.

Matt Hickman

This story can be found in its original form at the Mother Nature Network

We already know that urban trees can help deter crime and prompt us to smile a bit more. We know that they mitigate stormwater runoff, sequester carbon and provide vital habitats to city-dwelling critters while lending invaluable visual appeal to otherwise foliage-starved concrete jungles. No argument here; urban trees are pretty much the best.

We also know that the health benefits attached to urban trees extend well beyond their uncanny mood-improving abilities. Urban trees are air scrubbers non-pareil, dutifully sucking up the pollutants that city dwellers release. This, in turn, helps the denizens of major cities breathe a bit easier — or, in more stark terms, breathe at all.

A comprehensive new study recently released by the Nature Conservancy titled “Planting Healthy Air” takes an eye-opening deep dive into the relationship between urban trees — or lack thereof — and public health, particularly potentially fatal respiratory diseases linked to dirty city air. The takeaway of the study — at 136 pages, there’s a lot to digest — is this: the planting of trees in cities cannot and should not be underestimated as it serves as one of the most cost-effective methods of curbing urban air pollution levels and combating the urban heat island effect. We’ve all taken refuge under the shady canopy of a tree to escape from the sweltering heat at one time or another, looked up and thought to ourselves phew, what a lifesaver. As the Nature Conservancy details, this is one hell of an understatement.

The lead authors of “Planting Healthy Air” conclude that by investing just \$4 per capita in tree-planting efforts, cities could have a lasting impact on the respiratory health of residents. Additional trees planted in cities could potentially help reverse a truly troubling reality: more than 3 million people across the globe perish each year from air pollution-related illnesses brought on by the inhalation of fine particulate matter released by human activities that involve the burning of fossil fuels. Transportation-borne particulate matter — that is, the deadly air pollution released when firing up the engine of a car — is a biggie here. Trees can remove particulate matter released within their immediate vicinity by as much as a quarter.

What’s more, tens of thousands of city dwellers die each year from devastating heat waves. Given that canopies do a bang-up job of effectively cooling urban environments, their role in preventing heatwave-related deaths is also critical.

“Trees can have a significant local impact on pollution levels and temperatures,” notes Rob McDonald, the study’s primary author and a scientist for global cities at The Nature Conservancy, in a press statement. “Urban trees can save lives and are just as cost-effective as more traditional solutions like putting scrubbers on smokestacks or painting roofs white.”

Globally, a “conservative” investment of \$10 million in urban tree planting activities could help 68 million people breathe cleaner, less deadly air and provide 77 million urbanites with the peace of mind that the next heat wave won’t be their last. As the study’s authors point out, trees are the only solution that can do both: cool and clean air.

Of course, certain cities would benefit more from per capita tree-planting efforts than others. Looking at 245 of the world’s largest cities, the study identifies which urban areas would reap the greatest return on invest-



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ment (ROI) from more trees — and a lot of them. Obviously, densely populated cities that suffer from both high levels of air pollution and are often struck with deadly heat waves top the list.

A majority of the cities found to have the greatest ROI in terms of both cleaner air and cooling are (somewhat predictably) big, crowded, hot and located in South Asia: Delhi and Mumbai, India; Dhaka, Bangladesh; Karachi, Pakistan; Kathmandu, Nepal, and on. The African cities of Cairo, Dakar and Freetown, Sierra Leone, also make the study's top-ROI list as does the Haitian capital of Port-au-

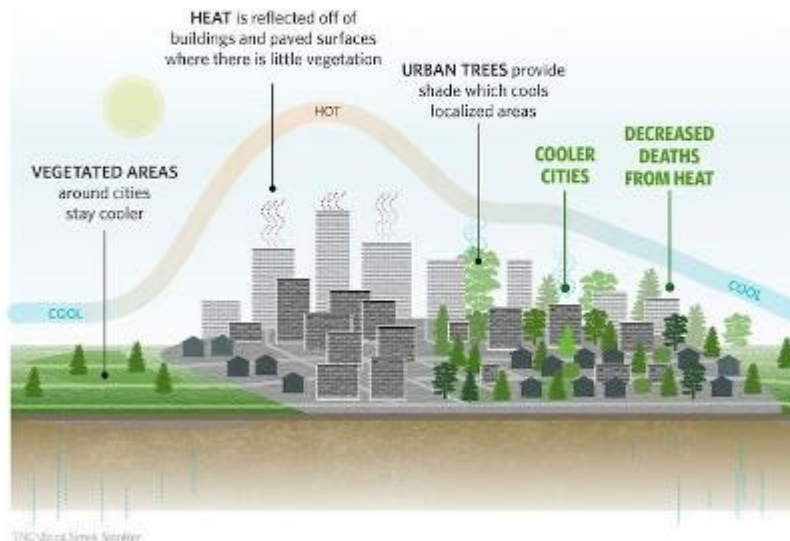
Prince.

While the study doesn't provide case studies for all 245 cities taken into

consideration, 15 cities across the globe with a desperate and not-so-desperate need for major tree-planting investments are further examined.

URBAN TREES, COOLER CITIES

Pavement and concrete in cities absorb energy from the sun and then radiate that energy out, heating the air in cities more than in the surrounding countryside. Urban trees provide shade, preventing pavement and concrete from heating up, and also cool the air by transpiring water. Trees can cool neighborhoods by up to 4 degrees Fahrenheit.



Atlanta, for example, was found to have a low ROI thanks in part to one of the densest urban canopies in North America. With trees covering 47.9 percent of the sprawling southeastern metropolis (the national average for U.S. cities in 27 percent), Atlanta's "city in the forest" nickname is more than well deserved. However, the study does point out that Atlanta's densely populated — and only getting denser — downtown neighborhoods could benefit

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from additional street-side trees, particularly with regard to heat mitigation.

Denver, touted as being a success story in combating rampant air pollution that once held the city in a sooty grip, is also noted as having an all-around low ROI that's largely due to extensive sustainability efforts and a low population density. However, like Atlanta, Denver's increasingly crowded downtown neighborhoods sport a high ROI.

And there's Los Angeles. While drought-ravaged, car-dependent L.A.'s citywide ROI is moderate when compared to other major global cities, localized

tree-planting action is suggested in denser neighborhoods of central L.A. along with the cities of Santa Monica and Long Beach. The study concludes that an annual investment of

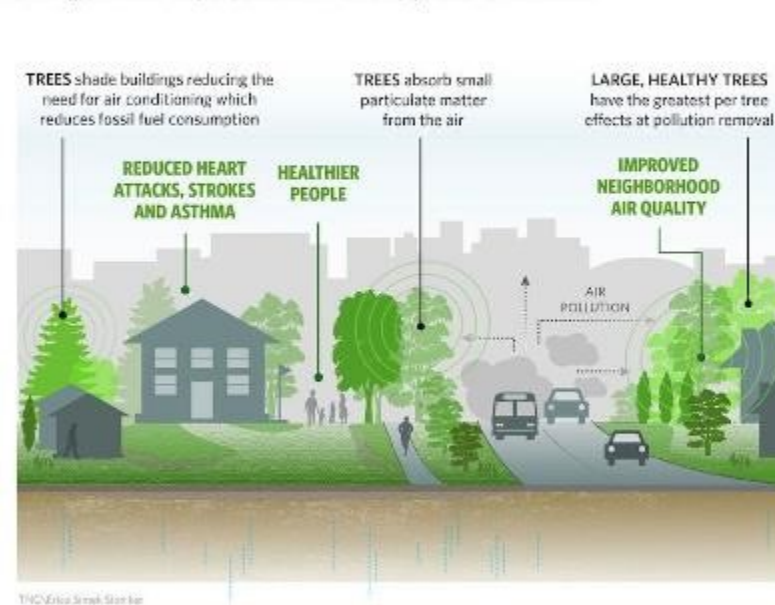
\$6.4 million in new trees in targeted neighborhoods could bring temperature-decreasing relief (a 2.7-degree Fahrenheit drop) to more than 400,000 Los Angelenos during

Southern California's sweltering summers. Click here to view "Planting Healthy Air" in full and to see how your city stacks up on the tree-planting ROI scale compared to other cities around the globe.

While most North American cities do rank on the extreme low end of the ROI scale compared to let's say, Ho Chi Minh City, there is of course, always room for improvement. After all, a few more trees never hurt anyone.

URBAN TREES, BETTER AIR QUALITY

Trees in cities can remove up to a quarter of the particulate matter pollution in their immediate vicinity. And when planted between a source of pollution and an apartment building, school or hospital, urban trees can help protect human health.



TNO/Enrica Simak Skarlar



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have a minimum of 18 months (1.5 years) of climbing experience in arboriculture. Documentation of work experience is required with submittal of your application. Letter(s) of reference from your current or previous employer(s) is acceptable. If you are self-employed or own your own company, you will be required to submit three letters of reference with your application.

References may be in the form of copies of invoices, contracts, and/or business licenses. The documentation provided must include the climbing experience and outline the dates of work required for eligibility. Please contact ISA for other possible forms of verification.

You must also show proof of valid hands-on training in CPR and first aid. Additionally, an exam candidate must include proof of a physical (practice) Aerial Rescue training within the past year. See the application section for acceptable verification options. By submitting your application, you authorize ISA to contact the practical experience reference(s) named on your application to substantiate your eligibility.

What is the Process to Apply for the Exam?

Exam Dates and Locations ISA Certified Tree Worker Climber Specialist® written exams are sponsored by an ISA chapter or associate organization or offered through a Pearson VUE testing center. The skills portion of the exam is held only as an event sponsored by an ISA chapter or associate organization. For information on dates and locations of certification exams in your area sponsored by an ISA chapter or associate organization, contact ISA or visit the ISA Events Calendar. To find out if a Pearson VUE testing center is close to you, visit <http://www.pearsonvue.com/isa/locate/>.

What is the Format of the ISA Certified Tree Worker Climber Specialist® Exam?

The examination consists of two parts:

- The written portion is made up of 65 multiple-choice questions. Each question has four possible answers listed, only one of which is correct. You will have 1.5 hours (90 minutes) to complete the written exam.
- The skills-based part of the exam is an outdoor practicum. You will have 30 minutes to safely and successfully complete it. You must pass both parts to obtain the certification. If you have been a participant in an ISA chapter, associate organization, or regional tree climbing championship or the International Tree Climbing Championship, you may waive the work climb portion of the skills exam provided you satisfy all of the other requirements and com-

plete all requirements noted on the Skills Exam Waiver Form. (Form included with online application.) You will need to specify on your application either that you are taking the entire exam or which part of the exam you wish to take.

How Should I Prepare for the Exam?

Written Exam Preparation The most current edition of ISA's Tree Climber's Guide is intended to serve as a recommended program of study. Other recommended study materials include:

- ANSI A300 Standard for Tree Care Operations (Part 1) – Pruning.
- ANSI Z133 Standard for Arboricultural Operations – Safety Requirements.
- ArborMaster® Training Series DVDs • ISA Learning Center online courses
- The Tree Climber's Companion – Jeff Jepson • Knots at Work – Jeff Jepson
- Best Management Practices: Tree Pruning (ISA, 2008) • Basic Training for Tree Climbers DVD (ISA/TCIA, 1999)

Note: Tree Climber's Guide, published by ISA, should NOT be considered the sole source of information for the certification ISA Certified Tree Worker Climber Specialist® Candidate Application Guide examination. Tree Climber's Guide and the ISA Certified Tree Worker Climber Specialist® exam are written by separate entities.

The exam tests a body of knowledge rather than knowledge obtained solely from a specific resource. The publications referred to above can be purchased from ISA in the ISA webstore, by calling +1.217.355.9411, or by emailing isa@isa-arbor.com.

You may also purchase these resources through your local

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ISA chapter or associate organization. Skills Exam Preparation The following informs the ISA Certified Tree Worker Climber Specialist® applicant of the requirements to pass the tree climbing skills test. It outlines in detail what you need to know and which skills must be demonstrated during the test.

Pre-Climb: Inspection of Equipment The applicant must demonstrate a pre-climb inspection of his or her equipment. This includes a manual and visual inspection of the rope, safety lanyard, and climbing saddle for any defects which could pose a safety hazard. Defective equipment must not be used.

Pre-Climb: Proper Tie-In The applicant must demonstrate a proper tie-in. The applicant will tie a recognized friction hitch [tautline hitch, Blake's hitch, Distel, Schwabisch, or French Prusik (VT)].

Pre-Climb: Tying a Figure-8 The applicant must demonstrate tying a figure-8 in running end.

Pre-Climb: On Rope Test The applicant demonstrates on rope test for body thrust OR secured footlock. He/she must be tied in, both feet on the tree, and hands off of rope.

Pre-Climb: Knots and Hitches The applicant must demonstrate the tying of six additional knots within a one-minute-per-knot time limit. Four of these must be tied correctly to proceed to the main skills test. Each knot must be tied correctly on the first attempt in order to receive a satisfactory mark. The candidate must correctly dress and set each knot. When the candidate hands the knot to the evaluator, it is considered to be an attempt. The point deduction for failure to tie each knot successfully is 35 points. The following are the required knots:

1. Cow hitch with a better half OR timber hitch
2. Buntline hitch, anchor hitch, OR double fisherman's bend (double fisherman's knot)
3. End-of-line: clove hitch OR bowline
4. Sheet bend OR quick hitch
5. Secured footlock ascending knot: Kleimheist OR English Prusik
6. Midline knot: clove hitch OR butterfly knot The candidate must have one or more points remaining to proceed to the main skills test.

Rope Throw: Tree and Site Inspection The climber must perform a tree and site inspection. The purpose is to check for:

- The location of utilities and wires
- In-ground targets
- Above-ground targets
- Tree structure and stability

Rope Throw: Climbing Line Installation The climber must

install the climbing rope at a predetermined position [20 to 25 feet (6 to 8 meters) above the ground]. The use of a throw weight is permitted, but the climber must successfully install the climbing line. Five attempts is the maximum permitted. If this task is not completed satisfactorily, the climber may not continue.

Secured Entry: Secured Entry into Tree The climbing rope must be installed in a manner that will permit a secured entry into the tree by tying a recognized friction hitch. Recognized friction hitches include: tautline hitch, Blake's hitch, Distel, Schwabisch, or French Prusik (VT).

Candidates must then enter the tree using the body-thrust OR secured footlock technique.

Guide Rope Advancement: Tree Inspection The climber should provide a verbal tree inspection by identifying potential hazards, if present. The climber must advance the climbing rope to the final tie-in position and may throw the rope as many times as necessary in this task.

Rope Advancement: Ascend to Final, Predetermined Tie-In Point The climber must tie in using a safe and appropriate manner within the maximum time limit set for the skills test. This time limit must be determined in advance by the raters. The purpose is not to introduce an element of speed into the exam, but rather to eliminate any candidate who is clearly not competent or prepared.

Tie-In: Final Tie-In The climber should tie in with a recognized friction hitch and stopper knot in the bitter end (running end) of the climbing line. Recognized friction hitches include: tautline hitch, Blake's hitch, Distel, Schwabisch, or French Prusik (VT).

Tie-In: Time Limit on Tying In The climber demonstrates tying the knot within the maximum time allowed. If time is greater than the maximum time limit of 20 minutes, it will result in failure of the exam.

Hand Contact Station: First Designated Work Station

Pole Saw/Pruner Work Station: Second Designated Work Station

Descent: Descend to Ground The climber must ensure sufficient rope to reach the ground.

Skills Exam Time Limit The entire exam must be completed within 30 minutes.

Note:

For the complete information on this certification, please go to: <https://www.isa-arbor.com/Portals/0/Assets/PDF/Certification-Applications/cert-Application-TW-Climber-Specialist.pdf>

The Prairie Chapter has trained practical exam evaluators but requires that candidates successfully complete the written exam prior to requesting the practical portion of the exam.



Photo by Keith Anderson



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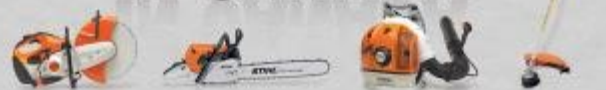
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