



Manitoba Arborists' Training and Licensing General Information

Study Materials:

The text for the program is the Arborists' Certification Study Guide. 2010. by Sharon J. Lilly. International Society of Arboriculture.

Manitoba Arborists Examination:

The exam consists of 165 multiple choice questions. The overall passing grade of the exam is 70% and the passing grade in each subject as presented below is 60%. Individuals writing the exam must pass the overall exam and each subject for successful completion of the exam to obtain accreditation from this program. If examinees fail to pass the overall exam, then the entire exam must be rewritten. If the overall passing grade is attained but certain subjects are failed, then the examinee is only required to rewrite those failed subjects and not the entire exam. The exam will be timed (2.5 hours), closed-book and will be written at the University of Manitoba at scheduled dates. Opportunities for rewrites of the exam or individual subjects can be arranged by contacting the School of Agriculture. In any 12-month period, individuals have the opportunity to write the initial exam and 2 rewrites. Rewrites and deferred exams will be offered only at standard, scheduled dates. A medical certificate is required for any deferred exams by registered participants. Anyone requiring a rewrite is required to register with the School of Agriculture before the examination rewrite is attempted.

Percentage of Each Subject Represented in Examination:

Plant Classification	6%
Tree Biology	13%
Soil Science	6%
Water & Nutrition	7%
Tree Selection/Installation	6%
Pruning	12%
Plant Diagnosis/Disorder	14%
Plant Health Care/Urban Forestry	6%
Risk Management/Support systems	6%
Trees & Construction	6%
Tree Worker Safety	6%
Plant ID	12%



Additional Information:

The International Society of Arboriculture (ISA) Arborist Certification Examination – Individuals may wish to challenge the ISA exam at additional costs fixed by the ISA. Application for this exam would be the responsibility of each individual. The dates for the ISA exam are scheduled by the Manitoba ISA exam proctors. Information regarding this examination may be obtained through the Manitoba Directors or the Certification Liaison as listed below:

ISA (International Society of Arboricultural)-Prairie Chapter	Web: www.isaprairie.com
ISA Prairie Chapter Certification & CEU Liaison	Email: office@isaprairie.com
ISA (International Society of Arboriculture)	Web: www.isa-arbor.com
ISA Prairie Chapter – Manitoba Directors	

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92 Hart Ave
Winnipeg, MB
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Plant Materials:

Dirr, M.C. 1990. Manual of Woody Landscape Plants. Stipes Publishing Co., 4th edition, 1007 pp

Farrar, J.L. 1995. Trees in Canada. Fitzhenry and Whiteside Ltd. And Canadian Forest Service, Natural Resources Canada, 502 pp.

Knowles, H. 1995. Woody Ornamentals for the Prairies. Faculty of Extension, University of Alberta, 210 pp.

Remphrey, W.R. Woody Plants in the Prairie Landscape CD-Rom. 2000. Remphrey Botanical Publications

Tree Biology:

Kozlowski, T.T., P.J. Kramer and S.G. Pallardy. 1991. The Physiological Ecology of Woody Plants. Academic Press, 657 pp.

Kramer, P.J. and T.T. Kozlowski. 1979. Physiology of Woody Plants. Academic Press, 832 pp.

Shigo, A.L. 1993. Tree Anatomy. Shigo and Trees, Associates, 104 pp.

Shigo, A.L. 1986. A New Tree Biology. Shigo and Trees, Associates, 596 pp.

Shigo, A.L. 1986. A New Tree Biology Dictionary. Shigo and Trees, Associates, 176 pp.

Zimmerman, M.H. and C.L. Brown. 1971. Trees Structure and Function. Springer-Verlag New York Inc., 336 pp.

General Arboriculture :

Grey, G.W. and F.J. Deneke. 1986. Urban Forestry. John Wiley and Sons, Inc., 2nd edition, 299 pp.

Harris, R.W. 1999. Arboriculture, Integrated Management of Landscape Trees, Shrubs and Vines. 3rd Edition. Prentice-Hall, Inc., 674 pp.

Lloyd, J. (coordinating author). 1997. Plant Health Care for Woody Ornamentals. ISA and Coop. Ext. Serv. University of Illinois, 223 pp.

Pirone, P.P. 1988. Tree Maintenance. 6th edition. Oxford University Press, Inc. , 514 pp.

Shigo, A.L. 1991. Modern Arboriculture. Shigo and Trees, Associates, 424 pp.

Watson, G.W. and E.B. Himlick. 1997. Principles and Practice of Planting Trees and Shrubs. International Society of Arboriculture, 199 pp.

Guide for Plant Appraisal. 1992. 8th edition. International Society of Arboriculture.

Pests :

Hiratsuka, Y., D.W. Langor and P.E.Crane. 1995. A Field Guide to Forest Insects and Diseases of the Prairie Provinces, Special Report 3. Natural Resources Canada, Canadian Forest Service, Northwest Region, Northern Forestry Centre, Edmonton, AB, 297 pp.

Ives, W.G.H. and H.R. Wong. 1988. Trees and Shrub Insects of the Prairie Provinces. Information Report NOR-X-292. Canadian Forestry Service.

Johnson, W.T. and H.H. Lyon. 1994. Insects that Feed on Trees and Shrubs. 2nd edition with corrections, Cornell Univ. Press, 560 pp.

Riffle, R.W. and ZG.W. Peterson. 1986. Diseases of Trees in the Great Plains. General Technical Report RM-129. USDA –Forest Service, Rocky Mt. forest and Range Expt. Station, Fort Collins, CO, 149 pp.

Sinclair, W.A., H.H. Lyon and W.T. Johnson. 1987. Diseases of Trees and Shrubs. Cornell University Press, Ithaca, N.Y., 575 pp.