

## Standards and Competencies for Forestry Management (Course # 5165)

	Begin-End Yr
Standard 1 - Evaluate careers in the world of forestry.	2009 -
1.1 - Specify and explain terms related to the forestry industry.	2009 -
1.2 - Assess the importance of trees and forests in rural and urban settings.	2009 -
1.3 - Explore the history and current status of forestry in the United States.	2009 -
1.4 - Research and prepare a written report on career opportunities in career opportunities available in forestry.	2009 -
1.5 - Demonstrate communication skills involved in forestry.	2009 -
Standard 2 - Specify major forest products of the world and describe the practices used in the management of these products.	2009 -
2.1 - Summarize terms related to forest products.	2009 -
2.2 - Analyze global uses of forests and their products.	2009 -
2.3 - Evaluate and explain the role of a forest manager.	2009 -
2.4 - Evaluate and explain the basic forest management practices.	2009 -
2.5 - Evaluate and explain the best management practices used in forestry and their effects on water quality.	2009 -
2.6 - Organize and present a report using the best management practices for a local forest or woodland.	2009 -
Standard 3 - Analyze methods of tree growth classification and identification of forest trees in Tennessee. Analyze methods of tree growth classification and identification of forest trees in Tennessee.	2009 -
3.1 - Specify terms related to tree identification.	2009 -
3.2 - Explain the major parts of the growth processes of trees and how biotechnology is improving those processes.	2009 -
3.3 - Assess the classification system of a tree according to size and crown.	2009 -
3.4 - Explain hardiness zones.	2009 -
3.5 - Categorize basic taxonomy and characteristics of leaves, fruits and twigs.	2009 -
3.6 - Evaluate the effects of soil fertility on tree growth and ecosystems.	2009 -
Standard 4 - Recommend basic tools, equipment, and safety practices in the forestry industry.	2009 -
4.1 - Summarize terms related to tools, equipment, and safety.	2009 -
4.2 - Determine basic safety practices for working in the forest industry.	2009 -
4.3 - Recognize the dangers and assess proper safety precautions for working in a forestry environment.	2009 -
4.4 - Relate hand tools and power equipment to their uses in the forest industry.	2009 -
Standard 5 - Evaluate the skills necessary for surveying and cruising timber stands.	2009 -
5.1 - Summarize terms related to forest mensuration.	2009 -
5.2 - Manipulate standard measurements and their equivalents and use common formulas to perform appropriate calculations in forestry.	2009 -
5.3 - Integrate basic procedures, calculations and tools of forestry surveying.	2009 -
5.4 - Convert compass-readings and adjust a compass for needed directions.	2009 -
5.5 - Integrate pacing and chaining techniques to measure horizontal distances, angles, and slopes.	2009 -
5.6 - Determine the types of cruises, the tools used, and the methods of cruising.	2009 -
5.7 - Complete systematic grid layouts for plot and point cruising and determine volume by cruising.	2009 -
Standard 6 - Interpret land descriptions and locate land tracts on a topographical and a standard map.	2009 -
6.1 - Specify terms related to map interpretation.	2009 -
6.2 - Interpret a topographic map.	2009 -
6.3 - Utilize and explain operational procedures of the different types of compasses.	2009 -
6.4 - Plot a compass reading on a map by azimuth and bearing readings.	2009 -
Standard 7 - Evaluate the different types of damage that occur to a forest.	2009 -
7.1 - Summarize terms related to forest disorders and damages.	2009 -
7.2 - Specify types of causes and effects of wild fire and prescribed fires.	2009 -
7.3 - Recommend tools and techniques for fire fighting.	2009 -
7.4 - Evaluate the causes and control of damages caused by insects, diseases, wind, pollution and invasive pest species.	2009 -
Standard 8 - Recommend utilization practices and discuss marketing of forest products.	2009 -
8.1 - Summarize terms related to forest utilization and marketing.	2009 -
8.2 - Evaluate and explain forest utilization practices.	2009 -
8.3 - Specify forest-marketing techniques for highest returns.	2009 -
8.4 - Evaluate worldwide markets for forest products.	2009 -
8.5 - Evaluate the impact of urban forests and greenbelts on urban lifestyles.	2009 -
Standard 9 - Demonstrate premier leadership and personal growth needed for success and advancement in the forestry industry.	2009 -
9.1 - Summarize terms related to Leadership and communication.	2009 -
9.2 - Conduct meetings using appropriate rules of conduct and parliamentary procedure.	2009 -
9.3 - Evaluate a code of ethics for business.	2009 -
9.4 - Develop public speaking skills needed to communicate in the forestry industry.	2009 -
9.5 - Research opportunities for a supervised agricultural experience program based on forest utilization.	2009 -