

Study Guide for the Golf IPM Certification Exam

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This study guide will direct you to important areas in your study material. To ensure you understand the material in these sections, we recommend you read through each of the publications for the background and details required to fully grasp all concepts. The Sustainable Turf manual is also recommended as excellent reference material. The Study Guide has been broken out into four (4) defined sections to further assist you in covering the material.

Section 1: IPM Definition and Elements

The focus of this section is the fundamentals of integrated pest management (IPM), including the definition of IPM and concepts integral to all IPM programs. Make sure you understand each of the following thoroughly.

TOPIC	REFERENCE
Describe or define IPM	Pub. 816, p. 1
List elements of IPM	Pub. 816, p. 1
The importance of monitoring and recording	Pub. 816, p. 4
Monitoring techniques and tools	Pub. 816, p. 6-9; Pub. 162, p. 20, Appendix A
Concept of thresholds	Pub. 816, p. 9
Turfgrass species selection	Pub. 816, p. 2
Importance of evaluation and how to properly evaluate a program	Pub. 816, p. 11
Reasons for IPM programs	Pub. 816, p. 11-12
Steps for developing an IPM program	Pub. 816, p. 13-16
IPM for turf insects	Pub. 816, p. 43-51
Monitoring techniques for turf insects	Pub. 162, p. 22

Section 2: Pest ID and Biology

This section briefly describes the importance of pest identification in an IPM program. Proper diagnosis, understanding pest life cycles, and knowing the biology of potential predators and antagonists are all required to practise IPM properly. Make sure you understand why each of the following is so important to IPM.

TOPIC	REFERENCE
Reasons why correct pest identification is important	Pub. 816, p. 3-4
Importance of correct grass species identification	Pub. 816, p. 5, 14
Importance of understanding pest life cycles and behavior	Pub. 162, p. 2,17-19; Pub. 816, p.4
The disease triangle, disease causing organisms and symptoms	Pub. 162, p. 4-5
Identifying beneficial species and their susceptibility to pesticides	Pub. 816, p. 42

Section 3: Pest Management Methods

This section deals with available controls or management methods. Thorough knowledge of pest management options is required for an effective IPM decision-making process. Make sure you understand the different options, how they are defined, and when they should be used.

TOPIC	REFERENCE
Different management and control methods	Pub. 816, p. 9
Selection of control methods	Pub. 816, p. 10; Pub. 162, pp. 3, 20-21
Cultural controls	
Describe how cultural treatments are used to manage pests	
Examples of cultural treatments	Pub. 384, pp. 19-20, 53,54,59; Pub. 816, pp. 2, 4, 10, 27, 53
Physical controls	Pub. 816, pp. 10, 29, 41
Examples of mechanical and physical treatments	
Biological controls	Pub. 816, pp. 10, 29-34, 46, 59
Definition of biological control	
Examples of biological treatment methods	
Chemical controls	Pub. 384, pp. 25,32; Pub. 816, pp. 11, 34-35, 41, 46-47
Sprayer calibration	Pub. 384, pp. 16-17

Pesticide selection process	Pub. 816, p. 11
Pesticide resistance	Pub. 384, pp. 17-18; Pub. 816, p. 12
Define pest resistance	
Describe how pest resistance can develop	

Section 4: Management of Specific Pests

This section deals with how to identify specific pest found in the Atlantic Region from their physical appearance and the damage caused. It also covers understand the life history,

Hairy chinch bug	Pub. 162, p. 27
Cut worm x	
Sod webworm	Pub. 162, p. 28; Pub. 816, p. 50
White grubs	Pub. 162, pp. 23-25; Pub. 816, p. 49
Dollar spot x	Pub. 162, p. 9; Pub. 816, p. 59
Pythium blight	Pub. 162, p. 10-11
Pink & Grey Snow mould x	Pub. 162, p. 6-7; Pub. 816, p. 59