

MS-CPAS Blueprint Summary

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|---------------------|----------------------------|
| Assessment: | Turf Management Technology |
| Test Code: | 20159Y1-2018 |
| CIP Code: | 010607 |
| Certificate: | Career |
| Type: | PS |

The MS-CPAS Blueprint Summary indicates the number of assessment questions related to each unit on the assessment and indicates the relative emphasis placed on each unit. All of the listed competencies will appear on the assessment, but because of the length of the assessment, not every competency will be equally represented in the assessment. The MS-CPAS Blueprint Summary includes a variety of information, which is explained below:

| Terms and Definitions | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assessment: | This signifies the name of the assessment, which corresponds with the name of the pathway or program. |
| CIP Code: | Developed by the U.S. Department of Education's National Center for Education Statistics (NCES), CIP codes are a federal coding system utilized for assessment and reporting of fields of study and program completions activity tracking. |
| Test Code: | A unique code that serves to numerically identify a specific assessment |
| DOK Levels: | Based on Webb's Depth of Knowledge (DOK), this signifies the assessment item difficulty factor to be expected in each unit. The three levels are as follows: <i>1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking</i> Some postsecondary programs will not use DOK levels until the next revision. |
| Instructional Hours: | The total number of hours assigned to a unit per the pathway's curriculum |
| Total Items: | The total number of items assigned to each unit on the assessment. It is calculated as follows: |
| Active Items: | The number of items on the assessment that will be graded |
| Field-test Items: | The number of items that are being field-tested, or piloted, to determine their eligibility for inclusion as an active item on future assessments. These items are not graded and, thus, will not impact the student's final score. |
| Total Assessed Items: | The total number of items on the given assessment. It is calculated as follows: <i>Active Items + Field-test Items</i> |

For more information regarding this MS-CPAS Blueprint Summary, please contact the Research and Curriculum Unit by phone at 1.866.901.7433 or by e-mail at helpdesk@rcu.msstate.edu.

| Assessment: Turf Management Technology | | | |
|-------------------------------------------------------------------------------------------------------------------|--|-----------------------------|-------------|
| Test Code: 20159Y1-2018 | | | |
| CIP Code: 010607 | | | |
| Total Hours: 16 | | Instructional Hours | Total Items |
| HLT 1113 Plant Materials I | | 3 | 8 |
| 1. Demonstrate an understanding of identifying and classifying plant materials. | | | |
| HLT 1123 Plant Materials II | | 3 | 8 |
| 1. Demonstrate an understanding of identifying and classifying plant materials. | | | |
| GTT 2813 Turfgrass Management for Golf Courses | | 3 | 8 |
| 1. Discuss the role of turfgrass and its importance in the golf course industry. | | | |
| 2. Describe the steps to establish turfgrass. | | | |
| 3. Describe the maintenance procedures to manage a healthy turf. | | | |
| 4. Discuss golf course design and management. | | | |
| 5. Discuss soil modification for athletic fields and golf courses. | | | |
| 6. Discuss the management practices that affect the speed of play. | | | |
| 7. Describe over seeding choices for golf courses. | | | |
| 8. Discuss turfgrass stresses. | | | |
| 9. Discuss turfgrass pests and methods to scout for pests. | | | |
| HLT 2124 Landscape Management and Weed Control | | 4 | 9 |
| 1. Describe the scope of landscape maintenance. | | | |
| 2. Identify and perform the proper method and timing of pruning operations for specific trees and shrubs. | | | |
| 3. Explain the laws and regulations governing licensure. | | | |
| 4. Describe the different types of weeds and herbicides. | | | |
| 5. Develop a 1-year maintenance schedule for residential and commercial applications. | | | |
| 6. Demonstrate proper procedures for applying chemicals to turfgrasses. | | | |
| HLT 2813 Ornamental and Turf Pest Management | | 3 | 7 |
| 1. Describe and explain the different types of insects associated with landscape and horticulture plant material. | | | |
| 2. Describe and explain the different types of disease common to ornamental and turf plants. | | | |
| 3. Describe control methods for insects and disease management. | | | |
| | | Active Items | 40 |
| | | Field-Test Items | 10 |
| | | TOTAL ASSESSED ITEMS | 50 |

MS-CPAS Blueprint Summary

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|---------------------|----------------------------|
| Assessment: | Turf Management Technology |
| Test Code: | 20159Y2-2018 |
| CIP Code: | 010607 |
| Certificate: | Technical |
| Type: | PS |

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| DOK Levels: | Based on Webb's Depth of Knowledge (DOK), this signifies the assessment item difficulty factor to be expected in each unit. The three levels are as follows: <i>1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking</i> Some postsecondary programs will not use DOK levels until the next revision. |
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| Field-test Items: | The number of items that are being field-tested, or piloted, to determine their eligibility for inclusion as an active Item on future assessments. These items are not graded and, thus, will not impact the student's final score. |
| Total Assessed Items: | The total number of items on the given assessment. It is calculated as follows: <i>Active Items + Field-test Items</i> |

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| Assessment: | Turf Management Technology | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|
| Test Code: | 20159Y2-2018 | |
| CIP Code: | 010607 | |
| Total Hours: | 10 | |
| | Instructional Hours | Total Items |
| GTT 2313 Golf Course Business Management | 3 | 12 |
| 1. Discuss entrepreneurship opportunities in the golf industry. 2. Describe procedures and techniques for hiring and retaining employees. 3. Describe the steps in purchasing equipment and materials. 4. Develop evaluation tools to assess job performance. 5. Discuss and perform common turfgrass calculations. | | |
| HLT 1513 Landscape Design 1 | 3 | 12 |
| 1. Demonstrate the use of drawing instruments and or CAD software programs landscape plans. 2. Describe and utilize site inventory and analysis processes and elements and principles of design. | | |
| GTT 2824 Irrigation Systems: Design and Maintenance | 4 | 16 |
| 1. Describe the basic components of an irrigation system. 2. Describe and discuss the general design of an irrigation system. 3. Calculate the cost estimate of a simple irrigation system. 4. Describe the methods and procedures to follow in the installation of an irrigation system. 5. Discuss the procedures to follow and the equipment to be used in maintaining and troubleshooting an irrigation system. 6. Describe different types of pumping stations for golf courses. 7. Discuss water quality issues for golf courses. | | |
| | Active Items | 40 |
| | Field-Test Items | 10 |
| | TOTAL ASSESSED ITEMS | 50 |