



End of Course (EOC) Test Blueprints

Exercise Science and Sports Medicine

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THE OHIO STATE UNIVERSITY
CENTER ON EDUCATION AND
TRAINING FOR EMPLOYMENT



**Department
of Education**



About Test Blueprints

Test blueprints are created to provide guidance to Subject Matter Experts (SMEs) during the item writing phase of test development. In addition, we believe that they can assist those instructors who did not participate in item writing (and administrators) to understand the broad content of the item bank. Items are formally allocated across a course outline in a three-step process*:

1. CETE psychometricians use a formula which assumes that all competencies within a course outline are *essential* and of equal importance to produce a suggested test blueprint for review by Ohio Department of Education program specialists and SMEs.
2. SMEs review the blueprint as a large group before item writing for a specific EOC test. There and in small groups, SMEs review the course outline and have the ability to make changes to the blueprint with a documented rationale based on their experience and expertise.
3. Any revisions during small group work must be approved by the larger panel of SMEs attending an item writing workshop, which is the last step and produces the final blueprint which is summarized in this document.



Test blueprints can provide high-level guidance to instructors on preparing students for testing. It is important to keep in mind that the blueprint is a tool that is used when developing the test item bank during initial item writing and test creation. As with all tests, the End-of-Course test forms are a sample of the item bank.

Interpreting the Blueprints

Test blueprints display the total number of test items SMEs planned to write to a particular *outcome* (as designated in the course outline created by the Ohio Department of Education Office of Career-Technical Education or by a vendor). Blueprints describe the structure of the item bank which is the total pool of test items created. Final test forms of 40-items are created from the item bank.

*This newer process for producing test blueprints was implemented October 1, 2015. Item banks created prior to this date were completed under a different blueprint process and therefore we are looking backward to provide the structure of the item bank. As revisions are completed for those career fields, for example Information Technology (2017-18), the blueprint process used will be the newer model.

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Exercise and Athletic Training

ODE Subject Code: 072000

Outcome #	Outcome Name	% Items In Bank
Strand 1. Business Operations/21st Century Skills		
1.1.	Employability Skills	6.59
1.2.	Leadership and Communications	7.69
1.3.	Business Ethics and Law	8.79
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	5.49
2.2.	Evaluate Body Systems	8.79
2.3.	Medical Terminology	4.40
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	10.99
3.2.	Health Promotion Interventions	6.59
3.3.	Pharmaceutical Interventions	1.10
3.5.	Nutritional Interventions	5.49
3.6.	Exercise and Rehabilitative Intervention	14.29
Strand 4. Assistive Care		
4.1.	Scope of Practice	3.30
4.2.	Therapeutic Communication and Interpersonal Skills	4.40
4.5.	Ambulation and Mobility	7.69
Strand 6. Health Information Management		
6.2.	Confidentiality, Privacy, and Security	4.40



Health Science and Technology

ODE Subject Code: 072001

Outcome #	Outcome Name	% Items In Bank
Strand 1. Business Operations/21st Century Skills		
1.1.	Employability Skills	6.19
1.2.	Leadership and Communications	4.12
1.3.	Business Ethics and Law	5.15
1.4.	Knowledge Management and Information Technology	3.09
1.5.	Global Environment	4.12
1.6.	Business Literacy	3.09
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	3.09
2.2.	Evaluate Body Systems	3.09
2.3.	Medical Terminology	9.28
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	7.22
3.2.	Health Promotion Interventions	4.12
3.3.	Pharmaceutical Interventions	11.34
3.5.	Nutritional Interventions	3.09
3.7.	Dental Interventions	4.12
Strand 4. Assistive Care		
4.1.	Scope of Practice	7.22
4.2.	Therapeutic Communication and Interpersonal Skills	3.09
4.3.	Microorganisms, Infection Control, and Infection	3.09
4.8.	End-of-Life Care	5.15
Strand 5. Bioscience Research and Development		
5.9.	Clinical Laboratory Techniques and Procedures	4.12
Strand 6. Health Information Management		
6.1.	Health Information Literacy	3.09
6.2.	Confidentiality, Privacy, and Security	3.09



Bio-Statistics in Exercise Science and Sports Medicine

ODE Subject Code: 072005

Outcome #	Outcome Name	% Items In Bank
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	10.13
2.2.	Evaluate Body Systems	12.66
2.3.	Medical Terminology	11.39
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	10.13
3.2.	Health Promotion Interventions	11.39
3.3.	Pharmaceutical Interventions	2.53
3.4.	Emergency Interventions	3.80
3.5.	Nutritional Interventions	11.39
3.6.	Exercise and Rehabilitative Intervention	11.39
Strand 4. Assistive Care		
4.2.	Therapeutic Communication and Interpersonal Skills	7.59
Strand 6. Health Information Management		
6.2.	Confidentiality, Privacy, and Security	7.59



Exercise Physiology and Biochemistry

ODE Subject Code: 072010

Outcome #	Outcome Name	% Items In Bank
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	21.52
2.2.	Evaluate Body Systems	3.80
2.3.	Medical Terminology	16.46
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	7.59
3.2.	Health Promotion Interventions	8.86
3.3.	Pharmaceutical Interventions	3.80
3.4.	Emergency Interventions	5.06
3.5.	Nutritional Interventions	3.80
3.6.	Exercise and Rehabilitative Intervention	21.52
Strand 4. Assistive Care		
4.2.	Therapeutic Communication and Interpersonal Skills	2.53
Strand 6. Health Information Management		
6.2.	Confidentiality, Privacy, and Security	5.06



Nutrition and Wellness

ODE Subject Code: 072015

Outcome #	Outcome Name	% Items In Bank
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	6.33
2.2.	Evaluate Body Systems	11.39
2.3.	Medical Terminology	6.33
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	3.80
3.2.	Health Promotion Interventions	12.66
3.3.	Pharmaceutical Interventions	5.06
3.5.	Nutritional Interventions	24.05
3.6.	Exercise and Rehabilitative Intervention	6.33
3.7.	Dental Interventions	3.80
Strand 4. Assistive Care		
4.1.	Scope of Practice	5.06
4.2.	Therapeutic Communication and Interpersonal Skills	6.33
4.8.	End-of-Life Care	3.80
Strand 6. Health Information Management		
6.2.	Confidentiality, Privacy, and Security	5.06



Fitness Evaluation and Assessment

ODE Subject Code: 072020

Outcome #	Outcome Name	% Items In Bank
Strand 1. Business Operations/21st Century Skills		
1.1.	Employability Skills	13.83
1.2.	Leadership and Communications	14.89
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	6.38
2.2.	Evaluate Body Systems	7.45
2.3.	Medical Terminology	6.38
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	9.57
3.2.	Health Promotion Interventions	12.77
3.5.	Nutritional Interventions	6.38
3.6.	Nutritional Interventions	13.83
Strand 4. Assistive Care		
4.1.	Scope of Practice	3.19
4.2.	Therapeutic Communication and Interpersonal Skills	5.32



Athletic Injuries and Prevention

ODE Subject Code: 072025

Outcome #	Outcome Name	% Items In Bank
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	10.00
2.2.	Evaluate Body Systems	15.00
2.3.	Medical Terminology	11.25
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	8.75
3.2.	Health Promotion Interventions	8.75
3.3.	Pharmaceutical Interventions	1.25
3.4.	Emergency Interventions	5.00
3.5.	Nutritional Interventions	10.00
3.6.	Exercise and Rehabilitative Intervention	11.25
Strand 4. Assistive Care		
4.1.	Scope of Practice	5.00
4.2.	Therapeutic Communication and Interpersonal Skills	2.50
4.3.	Pathogenic Microorganisms, Infection Control, and Infection	5.00
Strand 6. Health Information Management		
6.2.	Confidentiality, Privacy, and Security	3.75
6.3.	Electronic Health Records and Coding	2.50



Sports Exercise Psychology

ODE Subject Code: 072030

Outcome #	Outcome Name	% Items In Bank
Strand 1. Business Operations/21st Century Skills		
1.2.	Leadership and Communications	12.50
1.3.	Business Ethics and Law	3.75
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	6.25
2.2.	Evaluate Body Systems	6.25
2.3.	Medical Terminology	10.00
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	7.50
3.2.	Health Promotion Interventions	7.50
3.3.	Pharmaceutical Interventions	3.75
3.5.	Nutritional Interventions	5.00
3.6.	Exercise and Rehabilitative Intervention	6.25
Strand 4. Assistive Care		
4.1.	Scope of Practice	6.25
4.2.	Therapeutic Communication and Interpersonal Skills	8.75
4.7.	Psycho-social, Behavioral, and Emotional	15.00
Strand 6. Health Information Management		
6.2.	Confidentiality, Privacy, and Security	3.75



Medical Terminology

ODE Subject Code: 072150

Outcome #	Outcome Name	% Items In Bank
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	25.81
2.3.	Medical Terminology	18.28
Strand 3. Therapeutic Interventions		
3.3.	Pharmaceutical Interventions	7.53
Strand 4. Assistive Care		
4.1.	Scope of Practice	15.05
4.3.	Pathogenic Microorganisms, Infection Control, and Infection	4.30
Strand 5. Bioscience Research and Development		
5.3.	Microbiology Testing and Technology	5.38
Strand 6. Health Information Management		
6.1.	Health Information Literacy	10.75
6.2.	Confidentiality, Privacy, and Security	6.45
6.3.	Electronic Health Records and Coding	6.45



Human Anatomy and Physiology

ODE Subject Code: 072040

Outcome #	Outcome Name	% Items In Bank
Strand 2. Human Body System		
2.1.	Human Body Form, Function, and Pathophysiology	43.90
2.2.	Evaluate Body Systems	18.29
2.3.	Medical Terminology	21.95
Strand 5. Bioscience Research and Development		
5.3.	Microbiology Testing and Technology	4.88
5.4.	Bio-Molecular Technology	3.66
5.5.	Laboratory Standard Operational Procedures	3.66
5.6.	Culturing	3.66



Medical and Dental Office Technology

ODE Subject Code: 072155

Outcome #	Outcome Name	% Items In Bank
Strand 1. Business Operations/21st Century Skills		
1.1.	Employability Skills	2.08
1.2.	Leadership and Communications	3.13
1.3.	Business Ethics and Law	8.33
1.4.	Knowledge Management and Information Technology	4.17
1.5.	Global Environment	1.04
1.6.	Business Literacy	5.21
1.8.	Operations Management	5.21
1.9.	Financial Management	3.13
1.10.	Sales and Marketing	2.08
Strand 2. Human Body System		
2.3.	Medical Terminology	12.50
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	7.29
3.3.	Pharmaceutical Interventions	5.21
3.4.	Emergency Interventions	3.13
Strand 4. Assistive Care		
4.1.	Scope of Practice	4.17
4.2.	Therapeutic Communication and Interpersonal Skills	4.17
4.3.	Microorganisms, Infection Control, and Infection	9.38
4.8.	End-of-Life Care	1.04
Strand 6. Health Information Management		
6.1.	Health Information Literacy	4.17
6.2.	Confidentiality, Privacy, and Security	6.25
6.3.	Electronic Health Records and Coding	8.33

