

End of Course (EOC) Test Blueprints

Health Sciences

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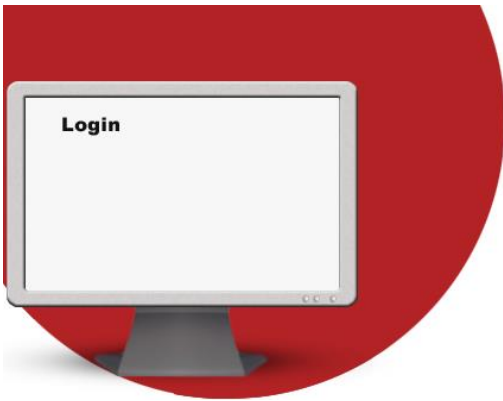
Ohio | Department
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About Test Blueprints

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 are formed into small groups during item writing and focus on writing a specific EOC test. Once in small groups, SMEs review the course outline and associated test blueprint and have the ability to make revisions/changes to the blueprint with a persuasive rationale based on their experience and expertise.
3. The blueprints created during small group work must be approved by the larger/full panel of SMEs attending an item writing workshop, which is the last step and produces the final blueprint which is summarized here.



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). The blueprint describes 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 process for producing test blueprints was implemented October 1, 2015. All tests created prior to this date were done so under a different blueprint process and therefore will not have these blueprint reports available.

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Exercise and Athletic Training

ODE Subject Code: 072000

Outcome #	Outcome Name	% Items Approved by SMEs
Strand 1. Business Operations/21st Century Skills		
1.1.	Employability Skills	6.32
1.2.	Leadership and Communications	8.42
1.3.	Business Ethics and Law	9.47
Strand 2. Human Body System		
2.1.	Human Body Form, Function and Pathophysiology	5.26
2.2.	Evaluate Body System	8.42
2.3.	Medical Terminology	5.26
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	10.53
3.2.	Health Promotion Interventions	6.32
3.3.	Pharmaceutical Interventions	1.05
3.5.	Nutritional Interventions	5.26
3.6.	Exercise and Rehabilitation Intervention	14.74
Strand 4. Assistive Care		
4.1.	Scope of Practice	2.11
4.2.	Therapeutic Communication and Interpersonal Skills	4.21
4.5.	Ambulation and Mobility	8.42
Health Information Management		
6.2.	Confidentiality, Privacy and Security	4.21



Fitness Evaluation and Assessment

ODE Subject Code: 072020

Outcome #	Outcome Name	% Items Approved by SMEs
Strand 1. Business Operations/21st Century Skills		
1.1	Employability Skills	12.63
1.2	Leadership and Communications	14.74
Strand 2. Human Body System		
2.1.	Human Body Form, Function and Pathophysiology	6.32
2.2.	Evaluate Body System	8.42
2.3.	Medical Terminology	6.32
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	9.47
3.2.	Health Promotion Interventions	12.63
3.5.	Nutritional Interventions	7.37
3.6.	Exercise and Rehabilitation Intervention	13.68
Strand 4. Assistive Care		
4.1.	Scope of Practice	3.16
4.2.	Therapeutic Communication and Interpersonal Skills	5.26



Clinical Laboratory Techniques

ODE Subject Code: 072100

Outcome #	Outcome Name	% Items Approved by SMEs
Strand 1. Business Operations/21st Century Skills		
1.1	Employability Skills	3.16
1.3	Business Ethics and Law	3.16
1.4	Knowledge Management and Information Technology	0.00
Strand 2. Human Body System		
2.1.	Human Body Form, Function and Pathophysiology	9.47
2.2.	Evaluate Body Systems	0.00
2.3.	Medical Terminology	1.05
Strand 3. Therapeutic Interventions		
3.1.	Environmental Interventions	13.68
3.4.	Emergency Interventions	2.11
Strand 4. Assistive Care		
4.1.	Scope of Practice	1.05
4.2.	Therapeutic Communication and Interpersonal Skills	0.00
4.3.	Microorganisms, Infection Control and Infection	6.32
Strand 5. Bioscience Research and Development		
5.1.	Handling, Preparation, Storage and Disposal	5.26
5.2.	Foundations of Chemistry	9.47
5.3.	Microbiology Testing and Technology	5.26
5.4.	Bio-Molecular Technology	8.42
5.5.	Laboratory Standard Operational Procedures	6.32
5.6.	Culturing	8.42
5.9.	Clinical Laboratory Techniques and Procedures	12.63
Strand 6. Health Information Management		
6.1.	Health Information Literacy	4.21



Medical Terminology

ODE Subject Code: 072150

Outcome #	Outcome Name	% Items Approved by SMEs
Strand 1. Business Operations/21st Century Skills		
1.2	Leadership and Communication	1.05
Strand 2. Human Body System		
2.1.	Human Body Form, Function and Pathophysiology	23.16
2.3.	Medical Terminology	17.89
Strand 3. Therapeutic Interventions		
3.3.	Pharmaceutical Interventions	6.32
Strand 4. Assistive Care		
4.1.	Scope of Practice	14.74
4.3.	Microorganisms, Infection Control and Infection	4.21
Strand 5. Bioscience Research and Development		
5.3.	Microbiology Testing & Technology	6.32
5.8	Biotechnology Research and Experiments	2.11
Strand 6. Health Information Management		
6.1.	Health Information Literacy	10.53
6.2.	Confidentiality, Privacy and Security	7.37
6.3.	Electronic Health Records and Coding	6.32

