



End of Course (EOC) Bank Blueprints

Cosmetology

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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 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). The blueprint describes 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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Microbiology and Infection Control

ODE Subject Code: 174115

Outcome #	Outcome Name	% Items in Bank
Strand 1. Business Operations/21st Century Skills		
1.01	Employability Skills	9.52
1.03	Business Ethics and Law	8.33
1.08	Operations Management	5.95
Strand 2. Human Body System		
2.02	Disorders of the Skin, Glands, Hair and Scalp	13.09
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	11.90
3.02	Principles of Infection Control	32.14
Strand 4. Hair and Skin Services		
4.02	Chemical Texturing	5.95
4.03	Hair Coloring	3.57
4.05	Haircutting	3.57
Strand 5. Nail and Facial Services		
5.01	Nail Care	5.95



Trichology

ODE Subject Code: 174120

Outcome #	Outcome Name	% Items in Bank
Strand 1. Business Operations/21st Century Skills		
1.03	Business Ethics and Law	7.85
1.10	Sales and Marketing	4.49
Strand 2. Human Body System		
2.01	The Human Body	12.40
2.02	Disorders of the Skin, Glands, Hair, and Scalp	24.72
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	7.87
3.02	Principles of Infection Control	8.99
Strand 4. Hair and Skin Services		
4.01	Perform Shampooing and Conditioning Services	19.10
4.04	Hair Styling Services	14.61



Fundamentals of Hair Cutting and Styling

ODE Subject Code: 174125

Outcome #	Outcome Name	% Items in Bank
Strand 1. Business Operations/21st Century Skills		
1.02	Leadership and Communications	4.71
1.03	Business Ethics and Law	5.88
1.10	Sales and Marketing	1.18
Strand 2. Human Body System		
2.01	The Human Body	7.06
2.02	Disorders of the Skin, Glands, Hair, and Scalp	3.53
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	3.53
3.02	Principles of Infection Control	4.71
Strand 4. Hair and Skin Services		
4.01	Perform Shampooing and Conditioning Services	8.24
4.04	Hair Styling Services	25.88
4.05	Haircutting	32.94
Strand 5. Nail and Facial Services		
5.02	Skin Care Services	2.35



Advanced Hair Cutting and Styling

ODE Subject Code: 174130

Outcome #	Outcome Name	% Items in Bank
Strand 4. Hair and Skin Services		
4.01	Perform Shampooing and Conditioning Services	11.76
4.04	Hair Styling Services	47.06
4.05	Haircutting	35.29
Strand 5. Nail and Facial Services		
5.02	Skin Care Services	5.88



Fundamentals of Chemical Services

ODE Subject Code: 174135

Outcome #	Outcome Name	% Items in Bank
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	8.24
3.02	Principles of Infection Control	9.41
Strand 4. Hair and Skin Services		
4.01	Perform Shampooing and Conditioning Services	9.41
4.02	Chemical Texturing	25.88
4.03	Hair Coloring	47.06



Advanced Chemical Services

ODE Subject Code: 174140

Outcome #	Outcome Name	% Items in Bank
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	7.06
3.02	Principles of Infection Control	10.59
Strand 4. Hair and Skin Services		
4.01	Perform Shampooing and Conditioning Services	10.59
4.02	Chemical Texturing	29.41
4.03	Hair Coloring	42.35



Hand & Foot Treatment Fundamentals and Enhancements

ODE Subject Code: 174145

Outcome #	Outcome Name	% Items in Bank
Strand 1. Business Operations/21st Century Skills		
1.03	Business Ethics and Law	8.14
Strand 2. Human Body System		
2.01	The Human Body	6.98
2.02	Disorders of the Skin, Glands, Hair, and Scalp	10.47
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	10.47
3.03	Principles of Infection Control	13.95
Strand 5. Nail and Facial Services		
5.01	Nail Care	50.0



Skin Care Fundamentals and Enhancements

ODE Subject Code: 174150

Outcome #	Outcome Name	% Items in Bank
Strand 1. Business Operations/21st Century Skills		
1.03	Business Ethics and Law	11.63
Strand 2. Human Body System		
2.01	The Human Body	19.77
2.02	Disorders of the Sin, Glands, Hair, and Scalp	19.77
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	5.81
3.02	Principles of Infection Control	22.09
Strand 5. Nail and Facial Services		
5.02	Skin Care Services	20.93



Salon Operations and Communications

ODE Subject Code: 174155

Outcome #	Outcome Name	% Items in Bank
Strand 1. Business Operations/21st Century Skills		
1.01	Employability Skills	7.06
1.02	Leadership and Communications	9.41
1.03	Business Ethics and Law	9.41
1.04	Knowledge Management and Information Technology	3.53
1.05	Global Environment	5.88
1.06	Business Literacy	8.24
1.07	Entrepreneurship/Entrepreneurs	4.71
1.08	Operations Management	10.59
1.09	Financial Management	5.88
1.10	Sales and Marketing	8.24
1.11	Principles of Business Economics	1.18
Strand 3. Health and Safety Interventions		
3.01	Environmental Interventions	12.94
3.02	Principles of Infection Control	8.24
Strand 4. Hair and Skin Services		
4.02	Chemical Texturing	1.18
Strand 5. Nail and Facial Services		
5.01	Nail Care	3.53

