

American Board of Oral Implantology/ Implant Dentistry  
2018 Practice Analysis Information

In 2018, the American Board of Oral Implantology/Implant Dentistry (ABOI/ID) began the process of conducting a practice analysis in order to update its test specifications to reflect current practice and to support validity of the exam by providing a link between patient-care activities and test content.

As recommended in *The Standards for Educational and Psychological Testing* (2014), in order to use the scores from a credentialing exam to judge credential-worthy performances, there should be evidence that there is a link between test content and the occupational requirements (Standard 11.3). Furthermore, the Standards recommend that some type of practice analysis should provide the basis for defining the content domain of a credentialing exam (Standard 11.13). Hence, the purpose of the practice analysis is two-fold: 1) provide validity evidence, and 2) define the content domain of the test.

Test specifications list the topics to be covered by an examination and the emphasis given to the topics. To help ensure that the test specifications were linked to practice requirements, the ABOI/ID practice analysis plan was adapted from the combination job analysis method as outlined in Brannick, et al (2007). It is comprised of two components: tasks and knowledge, skills, and abilities (KSAs). A task inventory survey was administered to Diplomates over a two-month period.

The final results are as follows:

Overall Domains and percentages relating to what is on the ABOI/ID written examination.

<b>Task Domain</b>	<b>Percent of Exam</b>
Obtaining and Assessing Diagnostic Data	15%
Developing and Presenting a Patient Treatment Plan	18%
Implementing Patient Treatment	44%
Maintaining the Effectiveness of the Dental Implant Treatment	8%
Prevention and Management of Complications	15%

<b>Domain</b>	<b>Task</b>	<b>N Test Items</b>
Obtaining and Assessing Diagnostic Data  N items = 30	Assess the patient's medical history	4
	Evaluate the patient's bone anatomy	4
	Assess patient risk factors	3
	Identify all clinical parameters for a completely edentulous patient	3
	Identify all clinical parameters for a partially edentulous patient	3
	Assess the patient's dental history	4
	Obtain and evaluate diagnostic records	3
	Obtain and evaluate CBCT scans	2
	Assess the patient's facial esthetics	2
	Assess the patient's temporomandibular joints and parafunctional habits	2
Obtain and assess the patient's clinical and medical laboratory tests	1	
Developin g and Presenting a Patient Treatment Plan  N items =36	Select the most appropriate treatment	5
	Educate the patient on the limitations of the proposed implant therapy	4
	Integrate the patient's medical and dental history findings into the proposed treatment plan	5
	Evaluate all pertinent treatment options with the patient	5
	Modify treatment plan based on biomechanics	4
	Assess and manage peri-operative pharmacological parameters	4
	Plan and present the sequence (staging) of the proposed treatment plan to the patient	4

<b>Domain</b>	<b>Task</b>	<b>N Test Items</b>
	Modify treatment plan based on esthetics	3
	Coordinate the phases of the patient's proposed treatment plan with dental and non-dental health-care providers	2
	Manage the patient's soft tissue	4
	Design, manage, and suture various flaps	3
	Evaluate the degree of healing and patient compliance	3
	Assess primary and secondary implant stability	3

<b>Domain</b>	<b>Task</b>	<b>N Test Items</b>
	Use an aseptic field during surgery	4
	Perform a framework try-in	4
	Make and evaluate a final impression for 4 or more implants	4
	Design and fabricate a full arch prosthesis	4
	Design, manage and suture various flaps	5
Implementing Patient Treatment	Monitor and assess the patient's peri-operative vital signs	3
N items = 88	Implement a surgical and prosthetic contingency plan	4
	Make and evaluate a final impression for 3 or less implants	4
	Manage the patient's anxiolytic state peri-operatively	3
	Maintenance and augmentation of the patient's ridge	4

<b>Domain</b>	<b>Task</b>	<b>N Test Items</b>
	Customize peri-operative protocols (hygiene, diet, medications, habit control, temporization, nightguard, occlusal control, etc.)	3
	Design, fabricate, and place a screw retained fixed prosthesis	2
	Utilize digital technology for treatment (CBCT, printed models, printed surgical guides, impressions, restorations, etc.)	2
	Perform a one or two stage implant surgery	3
	Assess primary and secondary implant stability	3
	Design and fabricate a single tooth transitional prosthesis for soft tissue contour	2
	Perform soft tissue grafting procedures	3
	Evaluate different radiographic modalities throughout treatment	2
	Design, fabricate, and place a removable overdenture	3
	Design, fabricate and place a screw retained fixed prosthesis	3
	Design, fabricate, and place a cement retained fixed prosthesis	2
	Use guided tissue regenerative procedures	3
	Manage the patient's soft tissue	4
	Perform pre-prosthetic surgery, including hard and soft tissue	2
	Augment the patient's sinus	3
	Evaluate the degree of healing and patient compliance	4
	Place implants in a healed ridge for a full arch with or without immediate functional load	2
	Perform immediate implant placement for a full arch with or without immediate functional load	1

<b>Domain</b>	<b>Task</b>	<b>N Test Items</b>
	Perform immediate implant placement for a single tooth with or without a provisional	1
	Place implant in a healed ridge for a single tooth with immediate provisionalization	1
	Design and fabricate surgical guides	1
	Place short implants (< 7 mm)	1
	Perform flapless procedures	0
	Place mini implant(s) including temporary anchorage devices	0
	Assess comfort, occlusion, function, and esthetics	4
	Perform periodic radiographic evaluation	3
Maintaining the Effectiveness of the Dental Implant Treatment	Evaluate the patient's implant treatment outcome periodically and refine as needed	2
	Customize maintenance protocols	2
	Evaluate the significance of changes in the patient's physical and psychological health	2
	Identify and address changes in the patient's temporomandibular status and parafunctional habits	2
	Identify changes in the patient's lifestyle (social habits, vocational, employment, marital, and/or financial)	1
N items = 16		
	Prevent and manage medical emergencies	4
	Prevent and manage post-operative surgical complications	4
Prevention and Management of Complications	Prevent and manage intra-operative surgical complications	4
	Prevent and manage prosthetic complications	3
	Prevent and manage esthetic complications	3
	Prevent and manage neurosensory disturbances	3
	Identify and manage peri-implantitis	3
N items = 30		

<b>Domain</b>	<b>Task</b>	<b>N Test Items</b>
	Treat a failing implant	3
	Treat an ailing implant	3