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Qualification

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Qualification description & entry requirements

QUALIFICATION CODE	HLT55117
QUALIFICATION TITLE	Diploma of Dental Technology
QUALIFICATION DESCRIPTION	<p>This qualification reflects the role of a dental technician responsible for construction and repair of dentures and other dental appliances including crowns, bridges, partial dentures, pre- and post-oral and maxillofacial surgical devices, and orthodontic appliances.</p> <p>Dental technicians work in dental laboratories on their own or in small groups, under the prescription of dentists, dental prosthetists or dental specialists</p> <p>No licensing, legislative, regulatory or certification requirements apply to this qualification at the time of publication.</p>
ENTRY REQUIREMENTS	There are no entry requirements for this qualification.

2 Comments



Packaging rules

PACKAGING RULES	<p>25 units must be completed:</p> <ul style="list-style-type: none"> ▪ 20 core units ▪ 5 elective units <ul style="list-style-type: none"> ◦ at least 3 units from the electives listed below ◦ up to 2 units from any endorsed Training Package or accredited course – these units must be relevant to the work outcome. <p>All electives chosen must contribute to a valid, industry supported vocational outcome.</p>
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1 Comments



Packaging rule change

"Divide the qualification into the 4 main streams of Dental Technology. Pros, Ortho, C&B, Co/Cr. CAD/CAM can fit in with all of these streams."

Nicholas Greer 27.09.2017 12.45PM

Reply

Core units

CORE UNITS	<p>Core Units</p> <p>CHCCOM005 Communicate and work in health or community services</p> <p>CHCDIV001 Work with diverse people</p> <p>HLTAID003 Provide first aid</p> <p>HLTDET001 Construct models</p> <p>HLTDET002 Construct custom impression trays</p> <p>HLTDET003 Construct registration rims</p> <p>HLTDET004 Articulate models and transfer records</p> <p>HLTDET005 Construct thermoformed bases and appliances</p> <p>HLTDET006 Construct immediate dentures</p> <p>HLTDET007 Construct removable acrylic partial dentures</p> <p>HLTDET008 Construct cast removable alloy partial denture framework</p> <p>HLTDET009 Construct crown and bridge structures</p> <p>HLTDET010 Join alloy structures</p> <p>HLTDET011 Construct ceramic and fixed restorations</p> <p>HLTDET012 Construct orthodontic appliances</p> <p>HLTDET013 Construct oral splints</p> <p>HLTDET014 Repair and modify dentures and appliances</p> <p>HLTDET015 Construct complete removable acrylic dentures and appliances</p> <p>HLTDET016 Design digital restorations using computer aided design</p> <p>HLTINF001 Comply with infection prevention and control policies and procedures</p> <p>HLTWHS003 Maintain work health and safety</p>
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3 Comments



HLTDET016 and HLTDET017 must be taught at the Advanced Diploma level

"Units HLTDET016 and HLTDET017, with the Australian Dental Association's (ADA) editorial included overleaf, must be provided and taught at the Advanced Diploma level. The ADA is disappointed that these two units are proposed to be taught at the Diploma level. In other words, such skills should be taught as part of an add-on qualification. CAD/CAM is a vast field that takes experienced dental technicians years to master and understand. These skills are typically acquired over years in the laboratory once conventional dental technological skills have been developed. The ADA questions whether in practice a student can be expected to CAD design two of each of the following categories (prosthetics, crown and bridge, chrome castings, orthodontics). Many if not most dental technicians would spend a lifetime developing the skills to be able to be an orthodontic technician alone without all the other elements. The ADA is concerned that courses do not provide enough time for these skills to be taught and for students to obtain them adequately. The ADA has received feedback that existing courses struggle to teach the current material for dental technicians. Were these two units therefore to be implemented, contact time would need to be expanded dramatically, that is by 50% or more although this is unlikely to occur. What this proposal seems to skip over is that there is no use learning CAD/CAM if students do not understand the strengths and weaknesses of various CAD/CAM solutions, plus the idiosyncrasies of CAD/CAM devices and challenges in creating a viable product. Further, there are technical problems with the CAD/CAM systems that create inaccuracies – the nuances of which would not be able to be understood adequately by students nor do these units as currently framed require that. That level of understanding requires a post graduate level of education – it is the equivalent of trying to teach an undergraduate dentist how to do a full mouth rehabilitation. While that skill can be included in that student's course, to offer these two units within the Diploma of Dental Technology would be grossly inappropriate to do so. Making both of these units form part of an Advanced Diploma

TOP

course will provide a better introduction to the essential knowledge and skill requirements of the dental technician. If these two units are ultimately approved to form part of only the Diploma of Dental Technology, there will be a high risk that those students completing those units will enter the workforce with an inadequate range and level of knowledge, skills and competency that poses a health risk to consumers, not to mention subsequent increased litigation to follow. "

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 11.46AM

Reply

Anatomy and Physiology

"I speak for the majority of fellow technicians when I question why Dental Anatomy and Physiology were removed as Core Units. This is the Basis of our industry. This needs to be reviewed and reintroduced. "

Jane Dumitru 02.10.2017 11.42PM

Reply

Divide qualification into 4 streams.

"Given a large amount of laboratories are set up to undertake a facet of the industry, I feel it would be beneficial to divide the qualification. First-year - COMMON UNITS (Communication, Infection control, WHS, Anatomy, Dental materials, First Aid, Construct models, Articulate models) Second-year - STREAM 1 - PROS (Registration rims, Thermoforming, Repair and Modify, Full Dentures, Partial Dentures, Immediate Dentures etc.) STREAM 2 - CROWN & BRIDGE (Crown and Bridge structures, Join alloy structures, Ceramics, CAD, CAM) STREAM 3 - ORTHO (Orthodontic appliances, Join alloy structures, CAD, CAM, Splints, Repair and modify) STREAM 4 - Co/Cr (Chrome partials, Join alloy structures, CAD, CAM) The business units could be added as a stand alone stream or incorporated into each steam after first year. This model would allow more time per stream to develop students skills prior to entering the workforce, or if an apprentice, speed up the process of completing the apprenticeship based on the work undertaken in their current lab. "

Nicholas Greer 27.09.2017 12.30PM

Reply

ELECTIVE UNITS	<p>Elective units</p> <p>CHCCOM002 Use communication to build relationships</p> <p>CHCDIV002 Promote Aboriginal and/or Torres Strait Islander cultural safety</p> <p>CHCDIV003 Manage and promote diversity</p> <p>CHCPRP005 Engage with health professionals and the health system</p> <p>HLTAID006 Provide advanced first aid</p> <p>HLTDET017 Construct restorations using computer aided manufacturing</p> <p>HLTINF002 Process reusable devices and equipment</p> <p>BSBADM311 Maintain business resources</p> <p>BSBADM409 Coordinate business resources</p> <p>BSBCUS301 Deliver and monitor a service to customers</p> <p>BSBCUS403 Implement customer service standards</p> <p>BSBFIA402 Report on financial activity</p> <p>BSBLDR403 Lead team effectiveness</p> <p>BSBMGT402 Implement operational plan</p> <p>BSBPMG522 Undertake project work</p> <p>BSBRKG403 Set up a business or records system for a small business</p> <p>BSBWOR204 Use business technology</p>
QUALIFICATION MAPPING INFORMATION	No equivalent qualification.
LINKS	Companion Volume Implementation Guide Link to be inserted

2 Comments



HLTDET016 and HLTDET017 must be taught at the Advanced Diploma level

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Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 11.47AM

Reply

BSBWOR204 Use business technology

"This Unit needs to be reviewed and perhaps introduce CAM as a core unit and this as an elective. Email and the like are common knowledge nowadays. The industry is basically in the Digital Era now in terms of Design and Manufacturing "

Jane Dumitru 02.10.2017 11.39PM

Reply

Get in touch

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Unit application and prerequisites

UNIT CODE	HLTDET016
UNIT TITLE	Design digital restorations and appliances using computer aided design (CAD)
APPLICATION	<p>This unit of competency describes the skills and knowledge required to design dental restorations and appliances using computer aided design (CAD) technologies.</p> <p>This unit applies to dental technicians working in dental laboratories.</p> <p><i>The skills in this unit must be applied in accordance with Commonwealth and State/Territory legislation, Australian/New Zealand Standards and industry codes of practice.</i></p>
PREREQUISITE UNIT	Nil
COMPETENCY FIELD	Dental
UNIT SECTOR	Dental technology

5 Comments ▲



Editorial changes: no 'design' involved / 'creation' of restoration 'patterns'

""Unit Title" should read: "Digital restoration patterns and appliances using computer aided design (CAD)" "Application" first sentence should read: "This unit of competency describes the skills and knowledge required to create dental restoration patterns and appliances using computer aided design (CAD) technologies."

TOP

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 11.55AM

Edit | Reply

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Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 11.48AM

Edit | Reply

TAFE NSW feedback

"• Training Package as a whole Looking at the overall qualification, the packaging rules state '25 units must be completed' with '20 core units' and '5 elective units'. However, with the addition of the proposed core unit 'HLTDET016 Design digital restorations using computer aided design' this will result in 21 core units. Does this increase the quota of elective units to be completed e.g. from 5 to 6. This would increase the delivery cost of the course as one to two units would be added. Therefore the student would be required to complete to 26 to 27 units to course complete. This would impact the cost the student would incur. Concerns are that the course delivery cost will increase with the increase of completion units to 27. • Unit: HLTDET016 Design digital restorations using computer aided design (CAD) Support this unit being a core as long as this does not increase the number of elective units to 6. Elements 1 Performance Criteria 1.4 and 1.5: there needs to be reference to importation of an intraoral scan as this is becoming more common in industry. Suggested rewording: 1.4 Assess quality of impression, model or intraoral scan and seek any required adjustments. 1.5 Scan physical impression, model or import intraoral scan and create digital representation of oral cavity. Knowledge Evidence: second point has personal protective equipment twice. Please delete one. Support all the remaining content of this unit. • Unit: HLTDET017 Construct restorations using computer aided manufacture (CAM) Performance Evidence: Recommend decreasing the performance evidence from four to two. Support all the remaining content of this unit. "

Paul Ward 03.10.2017 08.58AM

Reply

""

Jane Dumitru 02.10.2017 11.17PM

Reply

Prerequisite Unit

"Underpinning knowledge of all Core Units essential for this unit; should be undertaken in last semester."

Gregory Natt 29.09.2017 03.56PM

Reply

Elements and performance criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine restoration requirements.	1.1 Access and interpret work order. 1.2 Apply standard precautions when receiving, handling and working on dental materials. 1.3 Ensure accuracy of work order and seek additional information as required. 1.4 Assess quality of impression or model and seek any required adjustments. 1.5 Scan physical impression or model and create digital representation of impression. 1.6 Identify technologies and computer aided design (CAD) software required to complete digital design of restoration or appliance and ensure availability.

2. Design restoration or appliance using computer aided design (CAD).	1.1 Access required technologies and computer aided design (CAD) software. 1.2 Follow workplace policies and procedures to access and import digital impression files into computer aided design (CAD) software. 1.3 Create 3-D images by manipulating 3-D shapes. 1.4 Establish coordinate system and orientation according to work order. 1.5 Manipulate computer aided design (CAD) software features and functions to create digital design of restoration or appliance. 1.6 Apply rendering techniques to digital design of restoration.
3. Finalise digital design for manufacturing.	1.1 Ensure digital design of restoration accurately reflects requirements of work order. 1.2 Make any final adjustments to ensure integrity and accuracy of digital design. 1.3 Ensure digital design is available in format required for manufacturing. 1.4 Finalise digital design for production and store according to workplace requirements.

2 Comments



Applying standard 'infection control' and use of 'pattern' not 'design'

"Element (E) 1, Performance Criteria (PC) 2 to read: "Apply standard infection control precautions when receiving, handling and working on dental materials". E1 PC 6 to read: "Identify technologies and computer aided design (CAD) software required to complete digital pattern of restoration or appliance and ensure availability". E2, PC 11 to read: "1.1. Manipulate computer aided design (CAD) software features and functions to create digital pattern of restoration or appliance." E2 PC 12 to read: "Apply rendering techniques to digital pattern of restoration." E3, P13 to read: "Ensure digital design of restoration accurately reflects requirements of work order". E3 P14 to read: "Make any final adjustments to ensure integrity and accuracy of digital pattern". E3 P15 to read: "Ensure digital pattern is available in format required for manufacturing". E3 P16 to read: "Finalise digital pattern for production and store according to workplace requirements"."

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 12.06PM

Edit | Reply

Determine Restoration Requirements

"Should include receipt of digital files, knowledge of file types etc."

Gregory Natt 29.09.2017 04.10PM

Reply

Foundation skills

FOUNDATION SKILLS	
<i>Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed below.</i>	
SKILLS	DESCRIPTION
Reading skills to:	▪
Writing skills to:	▪
Oral communications skills to:	▪
Numeracy skills to:	▪
Learning skills to:	▪
Problem-solving skills to:	▪
Initiative and enterprise skills to:	▪
Teamwork skills to:	▪
Planning and organising skills to:	▪
Self-management skills to:	▪
Technology skills to:	▪

TOP

UNIT MAPPING INFORMATION	No equivalent unit.
LINKS	Companion Volume Implementation Guide: <i>Link to be inserted</i>

1 Comments



Performance evidence

TITLE	Assessment Requirements for HLTDET016 Design digital restorations and appliances using computer aided design (CAD)
PERFORMANCE EVIDENCE	<p>The candidate must show evidence of the ability to complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be evidence that the candidate has:</p> <ul style="list-style-type: none"> ▪ read and correctly interpreted 4 work orders ▪ used computer aided design (CAD) software and technologies to prepare four digitally designed restorations for at least 2 of the following categories: <ul style="list-style-type: none"> ○ prosthetics ○ crown and bridge ○ chrome casting ○ orthodontics ○ splints ▪ applied standard precautions and safe work practices to prepare the 4 digital restoration designs ▪ critically evaluated the 4 digital restoration designs to meet requirements of the work order.

1 Comments



Remove "design" and include "patterns"; increase performative evidence numbers

"• read and correctly interpreted 10 work orders in total • used computer aided design (CAD) software and technologies to prepare two digital restoration patterns for each of the following categories: • prosthetics • crown and bridge • chrome casting • orthodontics • splints • applied standard precautions and safe work practices to prepare the 10 digital restoration patterns • critically evaluated the 10 digital restoration patterns to meet requirements of the work order." "

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 12.16PM

Edit | Reply

Knowledge evidence

<p>KNOWLEDGE EVIDENCE</p>	<p>The candidate must be able to demonstrate essential knowledge required to effectively complete tasks outlined in element and performance criteria of this unit, manage tasks and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> ▪ Australian/New Zealand Standards, workplace health and safety (WHS) policies, Dental Board of Australia guidelines on infection control, Commonwealth legislation and State/Territory legislation, and organisational policies relating to dental laboratory work ▪ requirements and organisational policies relating to dental laboratory work including: <ul style="list-style-type: none"> ○ use of standard precautions ○ use of personal protective equipment ○ requirements for the use of technologies and computer aided design (CAD) software ○ requirements for storage of digital designs ○ personal protective equipment ○ work health and safety ▪ benefits and limitations of computer aided design (CAD) in digital dentistry ▪ commonly used types of computer aided design (CAD) technologies used the in dental industry ▪ digital design processes and procedures ▪ digital design file types ▪ digital and physical impressions and properties ▪ types of digital restorations and appliances ▪ properties of restoration material ▪ computer aided manufacturing types and processes commonly used in digital dentistry ▪ fundamentals of oral anatomy: <ul style="list-style-type: none"> ○ dentition – arrangement of teeth, naming and coding of teeth ○ structures of the oral cavity – hard and soft palate, lateral and posterior borders of the oral cavity, tongue and floor of mouth ○ teeth form and function.
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1 Comments



Include standard infection control precautions and storage of digital patterns

"Second dot point first sub point to read: "use of standard infection control precautions". Second dot point fourth sub point to read: "requirements for storage of digital patterns"."

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 12.18PM

Edit | Reply

Assessment conditions

<p>ASSESSMENT CONDITIONS</p>	<p>Skills must have been demonstrated in a dental laboratory workplace or in a simulated dental laboratory environment that reflects workplace laboratory conditions. The following conditions must be met for this unit:</p> <ul style="list-style-type: none"> ▪ use of suitable facilities, equipment and resources: <ul style="list-style-type: none"> ○ access to a variety of work orders ○ digital and physical impressions ○ computer aided design (CAD) software and technologies commonly used within the dental industry ○ Dental Board of Australia guidelines on infection control on which the candidate bases the planning process ○ laboratory safety manuals and procedures in line with relevant Commonwealth and Sate/Territory legislation. <p>Assessors must satisfy the standards for registered training providers' requirements for assessors.</p>
<p>LINKS</p>	<p>Companion Volume Implementation Guide: <i>Link to be inserted</i></p>

1 Comments



Increase access to work orders of each of the 5 categories

"First dot point second sub point to read: " access to work orders of each of the 5 categories"."*

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 12.19PM

Edit | Reply

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Unit application and prerequisites

UNIT CODE	HLTDET017
UNIT TITLE	Construct restorations using computer aided manufacturing (CAM)
APPLICATION	<p>This unit of competency describes the skills and knowledge required to construct dental restorations using computer aided manufacturing (CAM) technologies.</p> <p>This unit applies to dental technicians working in dental laboratories.</p> <p><i>The skills in this unit must be applied in accordance with Commonwealth and State/Territory legislation, Australian/New Zealand Standards and industry codes of practice.</i></p>
PREREQUISITE UNIT	Nil
COMPETENCY FIELD	Dental
UNIT SECTOR	Dental technology

5 Comments



HLTDET016 and HLTDET017 must be taught at the Advanced Diploma level

"Units HLTDET016 and HLTDET017, with the Australian Dental Association's (ADA) editorial included, must be provided and taught at the Advanced Diploma level. The ADA is disappointed that these two units are proposed to be taught at the Diploma level. In other words, such skills should be taught as part of an add-on qualification. CAD/CAM is a vast field that takes experienced dental technicians years to master and understand. These

skills are typically acquired over years in the laboratory once conventional dental technological skills have been developed. The ADA questions whether in practice a student can be expected to CAD design two of each of the following categories (prosthetics, crown and bridge, chrome castings, orthodontics). Many if not most dental technicians would spend a lifetime developing the skills to be able to be an orthodontic technician alone without all the other elements. The ADA is concerned that courses do not provide enough time for these skills to be taught and for students to obtain them adequately. The ADA has received feedback that existing courses struggle to teach the current material for dental technicians. Were these two units therefore to be implemented, contact time would need to be expanded dramatically, that is by 50% or more although this is unlikely to occur. What this proposal seems to skip over is that there is no use learning CAD/CAM if students do not understand the strengths and weaknesses of various CAD/CAM solutions, plus the idiosyncrasies of CAD/CAM devices and challenges in creating a viable product. Further, there are technical problems with the CAD/CAM systems that create inaccuracies – the nuances of which would not be able to be understood adequately by students nor do these units as currently framed require that. That level of understanding requires a post graduate level of education – it is the equivalent of trying to teach an undergraduate dentist how to do a full mouth rehabilitation. While that skill can be included in that student's course, to offer these two units within the Diploma of Dental Technology would be grossly inappropriate to do so. Making both of these units form part of an Advanced Diploma course will provide a better introduction to the essential knowledge and skill requirements of the dental technician. If these two units are ultimately approved to form part of only the Diploma of Dental Technology, there will be a high risk that those students completing those units will enter the workforce with an inadequate range and level of knowledge, skills and competency that poses a health risk to consumers, not to mention subsequent increased litigation to follow."

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 11.50AM

Edit | Reply

HLTDET017

"Element 1.2 Implement Infection control protocols when receiving Dental Materials or Impressions. Reason: Standard precautions is too broad, specifically a lab follows I. C. protocols 1.3 Review work order and obtain clinician's approval for manufacturing, seek additional instructions as required Reason: The digital design needs approval by clinician prior to manufacturing and instructions are to be followed by technician as it is a prescription. 1.4 Assess digital design and seek information for required adjustments Add 1.5 Obtain final approval of Design Reason: At this stage manufacturing would not be considered until the design was approved. The materials are too costly, approval of digital design is always required first. 1.5 as in proposed element is more appropriate to element 2 3.4 Should include Disinfect appliance/ restoration prior to packaging etc. - In terms of Pre requisites, it would not be advised for a person to enter this unit unless they have prior knowledge of even Basic Dental Anatomy and Physiology as well as Computer Technology skills. Would be more advantageous to make it a core unit rather than elective as CAD/CAM is a package for laboratories CAD alone can be done also in a dental clinic and is not specific to laboratories/ technicians. Use Business Technology BSBWOR204 needs to be reviewed as it not particularly relevant and perhaps this could be made into an Elective Unit and introduce HLTDET017 as core unit. "

Jane Dumitru 02.10.2017 11.23PM

Reply

Core Unit

"I would suggest that CAM should be a Core Unit as competency in this field is critical for successful CAD. Laboratories are investing in CAD/CAM technology rather than outsourcing everything to a central production facility."

Gregory Natt 29.09.2017 04.37PM

Reply

1 Reply



Unit Title

"Add 'appliance' to title as per CAD & flow this through the Unit were appropriate"

Gregory Natt 29.09.2017 04.17PM

Reply

Elements and performance criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine restoration requirements.	1.1 Access and review work order. 1.2 Apply standard precautions when receiving, handling and working on dental materials. 1.3 Ensure accuracy of work order and seek additional information as required. 1.4 Assess quality of digital design and seek any required adjustments. 1.5 Identify computer aided manufacturing (CAM) technologies required to construct restoration and ensure availability.
2. Construct restoration using computer aided manufacturing (CAM).	1.1 Access required computer aided manufacturing (CAM) software. 1.2 Follow workplace policies and procedures to access and import digital files into computer aided manufacturing (CAM) software. 1.3 Select appropriate materials for computer aided manufacturing (CAM) of restoration. 1.4 Manipulate and program features of computer aided manufacturing (CAM) technologies to construct restoration or appliance. 1.5 Monitor construction of restoration and make any required adjustments.

3. Finalise restoration.	1.1 Inspect restoration for defects and ensure restoration accurately reflects requirements of work order. 1.2 Make any final adjustments to ensure integrity and accuracy of restoration or appliance. 1.3 Complete required staining or glazing to finalise restoration, as required. 1.4 Finalise and package restoration according to workplace requirements.
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3 Comments



References to "infection control", "impressions", "pattern" (not "design"), "appliance"

"Element (E) 1, Performance Criteria (PC) 2 to read: "Apply standard infection control precautions when receiving, handling and working on dental impressions and materials". E 1 PC 4 to read: "Assess quality of digital pattern and seek any required adjustments. E 2 PC 8 to read: "Select appropriate materials for computer aided manufacturing (CAM) of restoration or appliance". E 2 PC1 10 to read: "Monitor construction of restoration or appliance and make any required adjustments." E 3 PC 14 to read: "14. Finalise and package restoration or appliance according to workplace requirements"."

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 12.26PM

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Printing

"Knowledge of 3D printing needs to be included within this Unit or at least as an Elective. "

Gregory Natt 29.09.2017 04.31PM

[Reply](#)

Element 2 - 1.3

"Add to 1.3 'demonstrating Material Science knowledge'. Students require sound understanding of CAM materials including zirconia, hybrid composites etc."

Gregory Natt 29.09.2017 04.27PM

[Reply](#)

Foundation skills

FOUNDATION SKILLS	
<i>Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed below.</i>	
SKILLS	DESCRIPTION
Reading skills to:	▪
Writing skills to:	▪
Oral communications skills to:	▪
Numeracy skills to:	▪
Learning skills to:	▪
Problem-solving skills to:	▪
Initiative and enterprise skills to:	▪
Teamwork skills to:	▪
Planning and organising skills to:	▪
Self-management skills to:	▪
Technology skills to:	▪
UNIT MAPPING INFORMATION	No equivalent unit.

LINKS	Companion Volume Implementation Guide: <i>Link to be inserted</i>
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0 Comments



Performance evidence

TITLE	Assessment Requirements for HLTDET017 Construct restorations using computer aided manufacturing (CAM)
PERFORMANCE EVIDENCE	<p>The candidate must show evidence of the ability to complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be evidence that the candidate has:</p> <ul style="list-style-type: none"> ▪ read and correctly interpreted 4 work orders ▪ used CAM technologies to construct four restorations for at least two of the following categories: <ul style="list-style-type: none"> ○ prosthetics ○ crown and bridge ○ chrome casting ○ orthodontics ○ splints ▪ applied standard precautions and safe work practices to prepare the 4 restorations ▪ critically evaluated the 4 restorations constructed to meet technical laboratory and clinician requirements.

2 Comments



Include "infection control", "appliances" and increase number of performance evidence

"Have dot points read: "• read and correctly interpreted 10 work orders in total • used CAM technologies to construct two restorations or appliances for each of the following categories: • prosthetics • crown and bridge • chrome casting • orthodontics • splints • applied standard infection control precautions and safe work practices to prepare the 10 restorations or appliances • critically evaluated the 10 restorations or appliances constructed to meet technical laboratory and clinician requirements. "

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 12.31PM

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Minor Wordsmithing

"•used CAM technologies to construct four restorations for at least two of the following categories:" Should read "from at least"

Gregory Natt 29.09.2017 04.20PM

[Reply](#)

Knowledge evidence

<p>KNOWLEDGE EVIDENCE</p>	<p>The candidate must be able to demonstrate essential knowledge required to effectively complete tasks outlined in element and performance criteria of this unit, manage tasks and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> ▪ Australian/New Zealand Standards, workplace health and safety (WHS) policies, Dental Board of Australia guidelines on infection control, Commonwealth legislation and State/Territory legislation, and organisational policies relating to dental laboratory work ▪ requirements and organisational policies relating to dental laboratory work including: <ul style="list-style-type: none"> ○ use of standard precautions ○ use of personal protective equipment ○ requirements for the use of computer aided manufacturing (CAM) technologies ○ requirements for storage of digital designs ▪ benefits and limitations of computer aided manufacturing (CAM) in digital dentistry ▪ commonly used types of computer aided manufacturing (CAM) technologies used the in dental industry ▪ computer aided manufacturing (CAM) processes and procedures as related to digital dentistry ▪ digital restoration file types ▪ types of digital restorations ▪ anatomical features of digital restorations ▪ properties of restoration material ▪ surface finishing types and application ▪ fundamentals of oral anatomy: <ul style="list-style-type: none"> ○ dentition – arrangement of teeth, naming and coding of teeth ○ structures of the oral cavity – hard and soft palate, lateral and posterior borders of the oral cavity, tongue and floor of mouth ○ teeth form and function.
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1 Comments



Include "infection control" precautions, storage of digital "patterns" and "impressions"

"Second dot point first sub point to read: "use of standard infection control precautions". Second dot point fourth sub point to read: "requirements for storage of digital patterns". dot point 6, 7, 8, 9: "• digital restoration or appliance file types • types of digital restorations or appliances • anatomical features of digital restorations and appliances • properties of restoration and appliance material" "

Bryan (on behalf of Dr Hugo Sachs, President of the Australian Dental Association) Nguyen 06.10.2017 12.32PM

Edit | Reply

Assessment conditions

<p>ASSESSMENT CONDITIONS</p>	<p>Skills must have been demonstrated in a dental laboratory workplace or in a simulated dental laboratory environment that reflects workplace laboratory conditions. The following conditions must be met for this unit:</p> <ul style="list-style-type: none"> ▪ use of suitable facilities, equipment and resources: <ul style="list-style-type: none"> ○ access to a variety of work orders ○ digital restoration designs ○ computer aided manufacturing (CAM) technologies commonly used within the dental industry ○ restoration materials ○ Dental Board of Australia guidelines on infection control on which the candidate bases the planning process ○ laboratory safety manuals and procedures in line with relevant Commonwealth and Sate/Territory legislation. <p>Assessors must satisfy the standards for registered training providers' requirements for assessors.</p>
<p>LINKS</p>	<p>Companion Volume Implementation Guide:</p> <p><i>Link to be inserted</i></p>

1 Comments



Reference to "patterns" not "designs" and "appliance"

"First dot point first sub point to read: "• access to work orders of each of the 5 categories". First dot point second sub point to read: "digital restoration patterns". First dot point fourth sub point to read: "restoration and appliance materials"."

Get in touch

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