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GENSTONE CARVING Assessment Packages

National Vocational Certificate Level 2

Version 1 - September 2018



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GENSTONE CARVING Assessment Packages

Assessment Packages

National Vocational Certificate Level 2 Version 1 - September 2018

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ASSESSMENT MATERIAL EVIDENCE GUIDE Qualification Gemstone Carving CS Code: 0214G&J2A Level: 2 Credit: 12 Version:1	PREPA	RE CABOCHON MANU	JALLY			
CONTENTS	1. Assessment Summary and Re	cord				
	 Candidate Assessment Assessor Judgment Guide 					
	4. List of required tools/ equipm	ent, material and context of assessment				
ASSESSMENT AND ASSESSOR	Competent	Not Yet Compete	ent			
DETAILS	Assessment Re-Assessment					
	Assessor's Name:	Assessor's Code				
	Assessor's Signature	Date	DD MM YYYY			
CANDIDATE DETAILS	Candidate's Name:	First Name Last Nam	e			
	Father's Name					
	Institute Name and District					
	CNIC/ BFORM #					
	Registration Number issued by Assessment Body					
	Gender	Male Female Transgender				
	Candidate's Consent	I agree to the time and date of the assessment and of the assessment. I fully understand my rights of a				
	Candidate's Signature:					
ASSESSMENT RESULTS SUMMARY FORM	You can use this cover sheet as a	an Assessment Results Summary Form. Simply post coversheet to NAVTTC	a photocopy of this completed			
NAVTTC OFFICE ONLY	1. DATE FORM RECEIVED: DD MM	2. DATE ENTERED INTO DATABASE: YYYY DI	D MM YYYY			

Candidate's	s Name:	Name:					
ACTIVITY		MET	HOD		DESIRED OUTCOMES	RES	ULT
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PREPARE CABOCHON MANUALLY		NOT YET COMPETENT
Practical Skill Demonstration		~		✓	Perform role play for preparing Cabochon Manually		
Knowledge Assessment	✓	~			Answer any questions your Assessor may have during the practical assessment		
Other Requirement					• NA		

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform within 90 Minutes timeframe:

- Perform a role play to demonstrate, Prepare cabochon manually:
 - ✓ Marking and sawing of stone
 - ✓ Template marking on stone
 - ✓ Prepare cabochon as per template marking
 - ✓ Doping and course grinding of stone

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Reporttosupervisorincaseofanycontingencyaftertakingnecessaryactions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

ACTIVITIES		CANDIDATE RESPONSE
1.	Complete practical task in performing to prepare Cabochon Manually	 During Practical assessment under observation by an assessor, I will correctly carry out the following task. Marking and sawing of stone Mark stone for Cabochon making Remove the unwanted areas with plier Cut the marked stone with trim saw machine Template marking on stone Select size of cabochon on template Perform template marking Prepare Cabochon as per template marking Ensure adequate water supply for cutting process Make necessary arrangements in workstation prepare cabochon with grinding machine
		 Doping and course grinding of stone Arrange material for doping process Fix stone on dope stick Make smooth surface of stone Perform course grinding at grit #180/#220/#260/#320
qu As hav pra	Answer any estions your sessor may ve during the actical sessment	My answers to questions are correct and demonstrate my understanding of the topics and their application:

ASSESSOR JUDGMENT GUIDE

Candidate's Name:	Father's Name:						
	This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.						
ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS			
1. Complete practical task in performing to prepare Cabochon Manually under observation by an assessor, including:	During a practical assessment under observation by and assessor, the candidate correctly carried out the following tasks:						
Marking and sawing of stone	Mark stone for Cabochon making Remove the unwanted areas with plier Cut the marked stone with trim saw machine						
Template marking on stone							
	Perform template marking						
Prepare Cabochon	Ensure adequate water supply for cutting process						
as per template marking	Make necessary arrangements in workstation						
-	prepare cabochon with grinding machine						
Doping and course	Arrange material for doping process						
grinding of stone	Fix stone on dope stick						
	Make smooth surface of stone						
	Perform course grinding at grit #180/#220/#260/#320						

2. Answer any questions their Assessor may have during the practical assessment	Candidate answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document all questions asked and candidate answers below. Use extra sheets if required and attach.		



INSTRUCTIONS	 This section contains information regarding; Context of the assessment List of required tools and equipment. List of consumable items required during the service
1. Context of Assessment	This task will be performed in real time environment

2. Lis	st of tools and equipment required	
S. No	Name of Items (tools and equipments)	Quantity
01	Light source	
02	Aluminum pencil or permanent marker	
03	Plier diamond cutter	
04	Trim saw Machine and blade as per requirement	
05	Template with difference 6, 4 and 2 in oval shapes	
06	Faceting unit machine for smooth work	
07	Leather/ Rubber lap with abrasive	
08	Grinding Machine with diamond grinding wheel	
09	Sprit lamp	
10	Doping wax and dope sticks	

	st of consumables	
S. No	Name of Items	Quantity/Volume
01	Rough stone	
02	Sanding paper grit #180/#220/#260/#320	
	Wax	





ASSESSMENT MATERIAL EVIDENCE GUIDE Qualification Gemstone Carving CS Code: 0214G&J2 B Level: 03 Credit: 08 Version: 01	PREPARE CAB	OCHON WITH AUTO CAB MAKING MACHINE				
CONTENTS	 Assessment Summary and Re Candidate Assessment 	cord				
	 Assessor Judgment Guide List of required tools/ equipm 	ent, material and context of assessment				
ASSESSMENT AND ASSESSOR	Competent	Not Yet Competent				
DETAILS	Assessment Re-Assessment					
	Assessor's Name:	Assessor's Code				
	Assessor's Signature	Date				
CANDIDATE DETAILS	Candidate's Name:	First Nam e Last Nam e				
	Father's Name					
	Institute Name and District CNIC/ BFORM #					
	Registration Number issued by					
	Assessment Body					
	Gender Candidate's Consent	Male Female Transgender				
	Candidate's Signature:	I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.				
ASSESSMENT RESULTS SUMMARY FORM	You can use this cover sheet as a	an Assessment Results Summary Form. Simply post a photocopy of this completed coversheet to NAVTTC				
NAVTTC OFFICE ONLY	1. DATE FORM RECEIVED: DD MM	2. DATE ENTERED INTO DATABASE: DD MM YYYY				

Candidate's	s Name:						
ACTIVITY		MET	HOD		DESIRED OUTCOMES	RES	ULT
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PREPARE CABOCHON WITH AUTO CAB MAKING MACHINE	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration		~		✓	Perform role play for prepare cabochon with auto cab making machine		
Knowledge Assessment		~			Answer any questions your Assessor may have during the practical assessment		
Other Requirement					• NA		

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform within **One hour** timeframe:

Perform a role play to demonstrate, prepare cabochon with auto cab making machine

- Marking and sawing of stone
 Prepare stone for cab making
 Perform doping
- ✓ Prepare cabochon on auto machine

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Reporttosupervisorincaseofanycontingencyaftertakingnecessaryactions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

ACTIVITIES	CANDIDATE RESPONSE
ACTIVITIES 1. Complete practical task in performing to prepare Cabochon with auto cab making machine	 CANDIDATE RESPONSE During Practical assessment under observation by an assessor, I will correctly carry out the following task. Marking and sawing of stone Mark stone for Cabochon making Remove the unwanted areas with pliers Mark stone and Cut with trim saw machine Prepare stone for cab making Ensure adequate water supply for cutting process Make necessary arrangements in work station to prepare stone for cab making Adjust auto cab machine for cabochon Making Perform doping Arrange material for doping process
2. Answer any	 Fix stone on dope stick Fix of doped stone in auto cab making machine Prepare cabochon on auto cab machine Ensure adequate water supply for cutting process Adjust machine according to template Execute the auto cab making My answers to questions are correct and demonstrate my understanding of the topics and their application:
questions your Assessor may have during the practical assessment	

ASSESSOR JUDGEMENT GUIDE

Candidate's Name:

Father's Name:

INSTRUCTIONS FOR ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
1. Complete practical task in performing to prepare Cabochon with auto cab making machine under observation by an assessor, including:	During a practical assessment under observation by and assessor, the candidate correctly carried out the following tasks:			
Marking and sawing of stone	Mark stone for Cabochon making			
	Remove the unwanted areas with pliers			
	Mark stone and Cut with trim saw machine			
Prepare stone for cab making	Ensure adequate water supply for cutting process			
	Make necessary arrangements in work station to prepare stone for cab making			
	Adjust auto cab machine for cabochon Making	+		
Perform doping	Arrange material for doping process			
	Fix stone on dope stick			
	Fix of doped stone in auto cab making machine			
Prepare cabochon on auto cab machine	Ensure adequate water supply for cutting process			
	Adjust machine according to template			
	Execute the auto cab making			

2. Answer any questions their Assessor may have during the practical	Candidate answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document all questions asked and candidate		
assessment	answers below. Use extra sheets if required and attach.		



INSTRUCTIONS	 This section contains information regarding; Context of the assessment List of required tools and equipment. List of consumable items required during the service
1. Context of Assessment	This task will be performed in real time environment

2. Lis	st of tools and equipment required	
S. No	Name of Items (tools and equipments)	Quantity
01	Abrasive wheel, grit 400 and 600 "cut off disc"	
02	Aluminum pencil or permanent marker	
03	Pliers with diamond coated tips	
04	Trim saw Machine and blade as per requirement	
05	Sprit lamp	
06	Auto cab Machine	

	3. List of consumables					
S. No	Name of Items	Quantity/Volume				
	Rough stone					
02	Doping wax and dope sticks					
03	Template with difference 6, 4 and 2 in oval shapes					





ASSESSMENT MATERIAL EVIDENCE GUIDE Qualification Gemstone Carving CS Code: 0214G&J2 C Level: 02 Credit: 12 Version: 01	SANDI	NG AND POLISHING OF CABO	CHON		
CONTENTS	 Assessment Summary and Red Candidate Assessment Assessor Judgment Guide List of required tools/ equipmet 	cord ent, material and context of assessment			
ASSESSMENT AND ASSESSOR	Competent	Not Yet Compet	tent		
DETAILS	Assessment Re-Assessment				
	Assessor's Name: Assessor's Signature	Assessor's Code	DD MM YYYY		
CANDIDATE DETAILS	Candidate's Name: Father's Name Institute Name and District	First Name Last Na	im e		
	CNIC/ BFORM # Registration Number issued by Assessment Body Gender Candidate's Consent	Male Female Transgender			
ASSESSMENT RESULTS SUMMARY FORM	Candidate's Signature: You can use this cover sheet as a	In Assessment Results Summary Form. Simply pos			
NAVTTC OFFICE ONLY	1. DATE FORM RECEIVED: DD MM	2. DATE ENTERED INTO DATABASE:	DD MM YYYY		

Candidate's	Candidate's Name:							
ACTIVITY		METHOD DESIRED OUTCOMES		RES	ULT			
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: SANDING AND POLISHING OF CABOCHON	COMPETENT	NOT YET COMPETENT	
Practical Skill Demonstration		~		~	 Perform role play for sanding and polishing of cabochon 			
Knowledge Assessment	✓	✓			Answer any questions your Assessor may have during the practical assessment			
Other Requirement					• NA			

Candidate's Name:..... Father's Name:....

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform within **Two Hours** timeframe:

- Perform a role play to demonstrate, sanding and polishing of cabochon

 - Perform sanding on Cab stone
 Perform sanding with tumbler machine
 - ✓ Perform polishing with tumbler machine

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task in performing Sanding and Polishing of Cabochon	 During Practical assessment under observation by an assessor, I will correctly carry out the following task. Perform sanding on cab stone Arrange sanding paper for sanding Perform sanding on the stone with Grit# 400, #600, #1000 sanding paper according requirement
	 Perform sanding with tumbler machine Identify and select appropriate sanding media Mix sanding abrasive according to defined ratio of material and media Add media with #600,#1000 abrasive to remove scratch Perform Polishing with Tumbler Machine Select appropriate polishing media Use polishing abrasive according to defined ratio of material and media Add media abrasive #600,#1000 (Aluminum oxide) for pre polish Mix media with abrasive chrome oxide for polishing
2. Answer any questions your Assessor may have during the practical assessment	My answers to questions are correct and demonstrate my understanding of the topics and their application:

ASSESSOR JUDGMENT GUIDE

Candidate's Name:

Father's Name:

INSTRUCTIONS FOR ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
1. Complete practical task in performing to prepare Cabochon with auto cab making machine under observation by an assessor, including:	task in performing to prepare Cabochon with auto cab making machine under observation by an assessor,During a practical assessment under observation by and assessment under observation by and tasks:under observation by an assessor,During a practical assessment under observation by and assessment under observation by and tasks:			
Perform sanding on cab stone	Arrange sanding paper for sanding			
	Perform sanding on the stone with Grit# 400, #600, #1000 sanding paper according requirement			
Perform Sanding with Tumbler Machine	Identify and select appropriate sanding media			
	Mix sanding abrasive according to defined ratio of material and media			
	Add media with #600,#1000 abrasive to remove scratch			
Perform Polishing with Tumbler	Select appropriate polishing media			
Machine	Use polishing abrasive according to defined ratio of material and media			
	Add media abrasive #600,#1000 (Aluminum oxide) for pre polish			
	Mix media with abrasive chrome oxide for polishing			

2. Answer any questions their Assessor may have	Candidate answers to questions are correct and demonstrate understanding of the topics and their application.		
during the practical assessment	Assessor to document all questions asked and candidate answers below. Use extra sheets if required and attach.		



INSTRUCTIONS	 This section contains information regarding; Context of the assessment List of required tools and equipment. List of consumable items required during the service
1. Context of Assessment	This task will be performed in real time environment

2. Li	2. List of tools and equipment required					
S. No	Name of Items (tools and equipments)	Quantity				
01	Tumbler machine					
02	Sanding paper waterproof (400, 600,1000)					
03	Leather lab, rubber lap, buff					

3. List of consumables							
S. No	Name of Items	Quantity/Volume					
01	Diamond Powder						
02	Chrome oxide, cerium oxide and aluminum oxide						
03	Cleaning cloth piece						





ASSESSMENT MATERIAL EVIDENCE GUIDE Qualification Gemstone Carving CS Code: 0214G&J2D Level: 02 Credit: 20 Version: 01	BASIC CARVING WORK								
CONTENTS	 Assessment Summary and Re Candidate Assessment Assessment Cuide 	cord							
	 Assessor Judgment Guide List of required tools/ equipm 	ent, material and context of assessment							
ASSESSMENT AND ASSESSOR	Competent	Not Yet Compete	ent						
DETAILS	Assessment Re-Assessment								
	Assessor's Name:	Assessor's Code							
	Assessor's Signature	Date	DD MM YYYY						
CANDIDATE DETAILS	Candidate's Name:	First Nam e Last Nan	n e						
	Father's Name								
	Institute Name and District								
	CNIC/ BFORM #								
	Registration Number issued by Assessment Body								
	Gender	Male Female Transgender							
	Candidate's Consent	I agree to the time and date of the assessment and of the assessment. I fully understand my rights of a							
	Candidate's Signature:								
ASSESSMENT RESULTS SUMMARY FORM	You can use this cover sheet as a	an Assessment Results Summary Form. Simply post coversheet to NAVTTC	t a photocopy of this completed						
NAVTTC OFFICE ONLY	1. DATE FORM RECEIVED: DD MM	2. DATE ENTERED INTO DATABASE: TYYYY	D MM YYYY						

Candidate's	Candidate's Name:									
ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT				
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: BASIC CARVING WORK	COMPETENT	NOT YET COMPETENT			
Practical Skill Demonstration		~		~	Perform role play for basic carving work					
Knowledge Assessment	✓	✓			 Answer any questions your Assessor may have during the practical assessment 					
Other Requirement					• NA					

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform within **four hour** timeframe:

Perform a role play to demonstrate, Basic Carving Work

- ✓ Extract Required shape for basic carving from stone
- ✓ Perform basic carving

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task in performing Basic carving work	 During Practical assessment under observation by an assessor, I will correctly carry out the following task. Extract required shape for basic carving from stone Ensure adequate water supply for grinding process Perform pre marking on stone for desired carving design Perform removal of unwanted edges of stone as per marking Finalize the basic shape on stone Perform basic carving Select tools and machine for basic carving process Install the carving tools in carving machine as per the requirement of the design Select course grinding with grinding wheels Perform basic carving and finalize the design
2. Answer any questions your Assessor may have during the practical assessment	My answers to questions are correct and demonstrate my understanding of the topics and their application:

ASSESSOR JUDGMENT GUIDE

Candidate's Name:

Father's Name:

INSTRUCTIONS FOR ASSESSOR

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
1. Complete practical task in performing to basic carving work under observation by an assessor, including:	During a practical assessment under observation by and assessor, the candidate correctly carried out the following tasks:			
Required shape for basic carving from stone	Ensure adequate water supply for grinding process			
	Perform pre marking on stone for desired carving design			
	Perform removal of unwanted edges of stone as per marking			
	Finalize the basic shape on stone			
Perform basic carving	Select tools and machine for basic carving process			
	Install the carving tools in carving machine as per the requirement of the design			
	Select course grinding with grinding wheels			
	Perform basic carving and finalize the design			

2. Answer any questions their Assessor may have during the practical assessment	Candidate answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document all questions asked and candidate answers below. Use extra sheets if required and attach.		



INSTRUCTIONS	 This section contains information regarding; Context of the assessment List of required tools and equipment. List of consumable items required during the service
1. Context of Assessment	This task will be performed in real time environment

2. Li	2. List of tools and equipment required							
S. No	Name of Items (tools and equipments)	Quantity						
01	Carving Machine							
02	Flexible shaft Machine							
03	Trim saw machine 6"-8" blade							
04	Diamond coated carving tools kit							
05	Plier with diamond coated tips							

	3. List of consumables								
S. No	Name of Items	Quantity/Volume							
	Stone for carving work								





ASSESSMENT MATERIAL EVIDENCE GUIDE Qualification Gemstone Carving CS Code: 0214G&J2 E Level: 03 Credit: 20 Version: 01	ADVANCE CARVING WORK							
CONTENTS	 Assessment Summary and Re Candidate Assessment Assessor Judgment Guide List of required tools/ equipm 	cord ent, material and context of assessment						
ASSESSMENT AND ASSESSOR	Competent	Not Yet Competent						
DETAILS	Assessment Re-Assessment							
	Assessor's Name:	Assessor's Code						
	Assessor's Signature	Date						
CANDIDATE DETAILS	Candidate's Name:	First Nam e Last Nam e						
	Father's Name							
	Institute Name and District							
	CNIC/ BFORM #							
	Registration Number issued by Assessment Body							
	Gender	Male Female Transgender						
Candidate's Consent I agree to the time and date of the assessment and am aware								
	Candidate's Signature:	of the assessment. I fully understand my rights of appeal.						
ASSESSMENT RESULTS SUMMARY FORM	You can use this cover sheet as a	an Assessment Results Summary Form. Simply post a photocopy of this completed coversheet to NAVTTC						
NAVTTC OFFICE ONLY	1. DATE FORM RECEIVED: DD MM	2. DATE ENTERED INTO DATABASE: DD MM YYYY						

Candidate's	Candidate's Name:									
ACTIVITY		MET	HOD		DESIRED OUTCOMES					
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: ADVANCE CARVING WORK	COMPETENT	NOT YET COMPETENT			
Practical Skill Demonstration		✓		~	Perform role play for advance carving work					
Knowledge Assessment		✓			 Answer any questions your Assessor may have during the practical assessment 					
Other Requirement					• NA					

Candidate's Name:..... Father's Name:....

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform within $\ensuremath{\textbf{four hour}}$ timeframe:

Perform a role play to demonstrate, advance carving work

- ✓ Develop 3D design with china clay
- ✓ Extract required shape for advance carving from stone
- ✓ Perform Advance carving

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Reporttosupervisorincaseofanycontingencyaftertakingnecessaryactions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

ACTIVITIES CANDIDATE RESPONSE Complete 1. During Practical assessment under observation by an assessor, I will correctly carry out the following task. practical task in performing Develop 3D design with china clay advance carving Select China clav tools and machine work Develop prototype model with china clay according to design \checkmark Extract required shape for advance carving from stone ✓ Select appropriate tools ✓ Perform per marking on stone ✓ Perform removed of unwanted edge of stone as per marking ✓ Finalize the 3D shape on stone Perform Advance carving • Select appropriate tools and machine Mark points to stone according to mod Mark points to stone according to model design Perform shaping as per model design on stone ✓ ✓ Finalize the 3D Carving work on stone My answers to questions are correct and demonstrate my understanding of the topics and their application: 2. Answer any questions your Assessor may have during the practical assessment

ASSESSOR JUDGMENT GUIDE

Candidate's Name:

Father's Name:

INSTRUCTIONS FOR application. ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
1. Complete practical task in performing to advance carving workunder observation by an assessor, including:	During a practical assessment under observation by and assessor, the candidate correctly carried out the following tasks:			
Develop 3D design with china clay	Select China clay tools and machine			
	Develop prototype model with china clay according to design			
Extract required shape for advance carving from	Select appropriate tools			
stone	Perform per marking on stone			
	Perform removed of unwanted edge of stone as per marking			
	Finalize the 3D shape on stone			
Perform Advance carving	Select appropriate tools and machine			
	Mark points to stone according to model design			
	Perform shaping as per model design on stone			
	Finalize the 3D Carving work on stone			

2. Answer any	Candidate answers to questions are correct and demonstrate		
questions their Assessor may have	understanding of the topics and their application.		
during the practical assessment	Assessor to document all questions asked and candidate answers below. Use extra sheets if required and attach.		
assessment			



INSTRUCTIONS	 This section contains information regarding; Context of the assessment List of required tools and equipment. List of consumable items required during the service 			
1. Context of Assessment	This task will be performed in real time environment			

2. Li	2. List of tools and equipment required				
S. No	Name of Items (tools and equipments)	Quantity			
01	Carving Machine				
02	Flexible shaft Machine				
03	Trim saw machine 6"-8" blade				
04	Diamond coated carving tools kit				
05	Plier with diamond coated tips				
06	Clamping device for holding stone				

	3. List of consumables			
S. No	Name of Items	Quantity/Volume		
01	China Clay			
02	Stone			
03				





ASSESSMENT MATERIAL				
EVIDENCE GUIDE Qualification Gemstone Carving CS Code: 0214G&J2 F Level: 03 Credit: 08 Version: 01	SANDING AND POLISHING OF CARVING WORK			
CONTENTS	Assessment Summary and Re Candidate Assessment	cord		
	3. Assessor Judgment Guide	ent, material and context of assessment		
ASSESSMENT AND ASSESSOR	Competent	Not Yet Competent		
DETAILS	Assessment Re-Assessment			
	Assessor's Name:	Assessor's Code		
	Assessor's Signature	Date DD MM YYYY		
CANDIDATE DETAILS	Candidate's Name:	First Nam e Last Nam e		
	Father's Name			
	Institute Name and District			
	CNIC/ BFORM #			
	Registration Number issued by Assessment Body			
	Gender	Male Female Transgender		
	Candidate's Consent	I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.		
	Candidate's Signature:			
ASSESSMENT RESULTS SUMMARY FORM	You can use this cover sheet as a	an Assessment Results Summary Form. Simply post a photocopy of this completed coversheet to NAVTTC		
NAVTTC OFFICE ONLY	1. DATE FORM RECEIVED: DD MM	2. DATE ENTERED INTO DATABASE: DD MM YYYY		

Candidate's	Candidate's Name:						
ACTIVITY	METHOD				RESULT		
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: SANDING AND POLISHING OF CARVING WORK	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration		~		✓	 Perform role play for sanding and polishing of carving work 		
Knowledge Assessment	✓	✓			 Answer any questions your Assessor may have during the practical assessment 		
Other Requirement					• NA		

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform within **3 hour** timeframe:

Perform a role play to demonstrate, sanding and polishing of carving work

- ✓ Perform sanding on stone
- ✓ Perform polishing on stone

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

ACTIVITIES	CANDIDATE RESPONSE
 Complete practical task in performing to sanding and polishing of carving work 	 During Practical assessment under observation by an assessor, I will correctly carry out the following task. Perform sanding on stone Use the flexible shaft machine for sanding process Use the small disk of silicon carbide for engraving carve lines Sanding on the stone with 400 sanding wheel according to requirement Sanding on the stone with 600 sanding wheel according to requirement Sanding on the stone with 1000 sanding wheel according to requirement Sanding on the stone with 1000 sanding wheel according to requirement Use the abrasive for sanding with rubber wheel if required Perform polishing on stone Use the flexible shaft machine for polishing process Perform polishing of stone with cotton buff and diamond powder (0-2) rubber leather and wooden polishing abrasive for engraving carve lines. Perform polishing on the stone (aluminum oxide 6000 for pre polish) Perform polishing on the stone (aluminum oxide 1000 for pre polish)
2. Answer any questions your Assessor may have during the practical assessment	My answers to questions are correct and demonstrate my understanding of the topics and their application:

ASSESSOR JUDGMENT GUIDE

Candidate's Name:

Father's Name:

INSTRUCTIONS FOR ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.

AC	TIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
1.	Complete practical task in performing to sanding and polishing of carving work under observation by an assessor, including:	During a practical assessment under observation by and assessor, the candidate correctly carried out the following tasks:			
Perfo	orm sanding on stone	Use the flexible shaft machine for sanding process			
		Use the small disk of silicon carbide for engraving carve lines			
		Sanding on the stone with 400 sanding wheel according to requirement			
		Sanding on the stone with 600 sanding wheel according to requirement			
		Sanding on the stone with 1000 sanding wheel according to requirement			
		Use the abrasive for sanding with rubber wheel if required			
Perfo	orm polishing on stone	Use the flexible shaft machine for polishing process			
		Perform polishing of stone with cotton buff and diamond powder (0-2) rubber leather and wooden polishing abrasive for engraving carve lines.			
		Perform polishing on the stone (aluminum oxide 6000 for pre polish)			
		Perform polishing on the stone (aluminum oxide 1000 for pre polish)			

2. Answer any questions their Assessor may have	Candidate answers to questions are correct and demonstrate understanding of the topics and their application.		
during the practical assessment	Assessor to document all questions asked and candidate answers below. Use extra sheets if required and attach.		



LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

INSTRUCTIONS	 This section contains information regarding; Context of the assessment List of required tools and equipment. List of consumable items required during the service
1. Context of Assessment	This task will be performed in real time environment

2. List of tools and equipment required					
S. No	Name of Items (tools and equipments)	Quantity			
01	Flexible shaft machine				
02	Small disk of silicon carbide				
03	Sanding wheel 400, 600 and 1000				

3. List of consumables									
S. No	S. No Name of Items Quantity/Volume								
01	Chrome oxide, cerium oxide and aluminum oxide								
	Sanding paper waterproof (400, 600, 1000)								
03	Stone								
04	Leather lab, rubber lap, buff								
05	Diamond Powder (0-2)								

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ASSESSMENT MATERIAL EVIDENCE GUIDE Qualification code: 0214G&J2 Level: 02 Credit: 80 Version: 1		GEMSTONE CARVING
CONTENTS	 Assessment Summary a Candidate Assessment Assessor Judgment Guid List of required tools/ e 	
ASSESSMENT AND ASSESSMENT PANEL DETAILS	Candidate's Instructor signature: Private Sector Expert's name: Private Sector Expert's signature Assessor's Name:	Not Yet Competent Re-Assessment
CANDIDATE DETAILS	Candidate Name: Father Name Institute Name and District CNIC # OR Renistration Number: Gender Candidate Consent Candidate Signature:	First Name Last Name Last Name Last Name Male Female I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.
ASSESSMENT RESULTS SUMMARY FORM	You can use this covershe	eet as an Assessment Results Summary Form. Simply post a photocopy of this completed coversheet to NAVTTC
NAVTTC OFFICE ONLY	1. DATE FORM	2. DATE ENTERED INTO DATABASE: 2. DATE ENTERED INTO DATABASE: MM YYYY DD MM

ASSESSMENT SUMMARY AND RECORD

ACTIVITY		MET	HOD		DESIRED OUTCOMES	RES	ULT
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF: GEMSTONE CARVING	COMPETENT	NOT YET COMPETENT
Practical final project		✓	~	~	Complete supplied project brief related to application of Gemstone Carving: Prepare cabochon manually Prepare cabochon with auto cab making Sanding and polishing of cabochon Basic carving work Advance carving work Sanding and polishing of carving work 		
Knowledge assessment	~	~			Answer all questions the Assessment Panel will have following oral presentation of completed project brief		
Other requirements					• N/A		

CANDIDATE ASSESSMENT

ALL WORK ASSESSED FOR THESE COMPETENCY STANDARDS MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to complete the following tasks within **five hours** timeframe:

- Prepare cabochon manually •
- Prepare cabochon with auto cab making •
- Sanding and polishing of cabochon •
- Basic carving work •
- Advance carving work •
- Sanding and polishing of carving work

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- Prepare work station as per the requirements of task
 Select tools/ equipment as per the requirements of task
 Reporttosupervisorincaseofanycontingencyaftertakingnecessaryactions
 Complete the work by following sequence of operations
 Perform task(s) within standard timeframe

ACTIVITIES	CANDIDATE RESPONSE
1.Tasks	During Practical assessment under observation by an assessor, I will correctly carry out the following task.
I. Complete practical task in performing to Prepare cabochon manually	 Marking and sawing of stone Mark stone for Cabochon making Remove the unwanted areas with plier Cut the marked stone with trim saw machine Template marking on stone Select size of cabochon on template Perform template marking Prepare Cabochon as per template marking Ensure adequate water supply for cutting process Make necessary arrangements in workstation prepare cabochon with grinding machine Doping and course grinding of stone Arrange material for doping process Fix stone on dope stick Make smooth surface of stone Perform course grinding at grit #180/#220/#260/#320

	a Marking and equing of stand
II. Osmulata umatical task	 Marking and sawing of stone ✓ Mark stone for Cabochon making
II. Complete practical task	 ✓ Remove the unwanted areas with pliers
in performing to Prepare	✓ Mark stone and Cut with trim saw machine
cabochon with auto cab	
making	 Prepare stone for cab making ✓ Ensure adequate water supply for cutting process
	 Make necessary arrangements in work station to prepare stone for cab making Adjust acts ask machine for scheduler Making
	✓ Adjust auto cab machine for cabochon Making
	Perform doping
	 ✓ Arrange material for doping process
	✓ Fix stone on dope stick
	✓ Fix of doped stone in auto cab making machine
	Prepare cabochon on auto cab machine
	 Ensure adequate water supply for cutting process
	 Adjust machine according to template
	✓ Execute the auto cab making
	Deuferre een dies en eek etere
III. Complete practical task in performing	 Perform sanding on cab stone ✓ Arrange sanding paper for sanding
	 Perform sanding on the stone with Grit# 400, #600, #1000 sanding paper according
Sanding and polishing of cabochon	requirement
	Perform sanding with tumbler machine
	 Identify and select appropriate sanding media
	 Mix sanding abrasive according to defined ratio of material and media
	✓ Add media with #600,#1000 abrasive to remove scratch
	Perform Polishing with Tumbler Machine
	✓ Select appropriate polishing media
	 ✓ Use polishing abrasive according to defined ratio of material and media
	✓ Add media abrasive #600,#1000 (Aluminum oxide) for pre polish
	Mix media with abrasive chrome oxide for polishing
IV. Complete practical	Extract required shape for basic carving from stone
task in performing Basic	 Ensure adequate water supply for grinding process
carving work	 Perform pre marking on stone for desired carving design
C C	 Perform removal of unwanted edges of stone as per marking
	✓ Finalize the basic shape on stone
	Perform basic carving
	✓ Select tools and machine for basic carving process
	✓ Install the carving tools in carving machine as per the requirement of the design
	✓ Select course grinding with grinding wheels
	✓ Perform basic carving and finalize the design
IV. Complete practical	Develop 3D design with china clay
task in performing Basic	 Develop 3D design with china clay ✓ Select China clay tools and machine
task in performing Basic carving work Advance	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design
task in performing Basic	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design Extract required shape for advance carving from stone
task in performing Basic carving work Advance	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design Extract required shape for advance carving from stone ✓ Select appropriate tools
task in performing Basic carving work Advance	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design Extract required shape for advance carving from stone ✓ Select appropriate tools ✓ Perform per marking on stone
task in performing Basic carving work Advance	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design Extract required shape for advance carving from stone ✓ Select appropriate tools ✓ Perform per marking on stone ✓ Perform removed of unwanted edge of stone as per marking
task in performing Basic carving work Advance	 Develop 3D design with china clay Select China clay tools and machine Develop prototype model with china clay according to design Extract required shape for advance carving from stone Select appropriate tools Perform per marking on stone Perform removed of unwanted edge of stone as per marking Finalize the 3D shape on stone
task in performing Basic carving work Advance	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design Extract required shape for advance carving from stone ✓ Select appropriate tools ✓ Perform per marking on stone ✓ Perform removed of unwanted edge of stone as per marking
task in performing Basic carving work Advance	 Develop 3D design with china clay Select China clay tools and machine Develop prototype model with china clay according to design Extract required shape for advance carving from stone Select appropriate tools Perform per marking on stone Perform removed of unwanted edge of stone as per marking Finalize the 3D shape on stone
task in performing Basic carving work Advance	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design Extract required shape for advance carving from stone ✓ Select appropriate tools ✓ Perform per marking on stone ✓ Perform removed of unwanted edge of stone as per marking ✓ Finalize the 3D shape on stone Perform Advance carving
task in performing Basic carving work Advance	 Develop 3D design with china clay ✓ Select China clay tools and machine ✓ Develop prototype model with china clay according to design Extract required shape for advance carving from stone ✓ Select appropriate tools ✓ Perform per marking on stone ✓ Perform removed of unwanted edge of stone as per marking ✓ Finalize the 3D shape on stone Perform Advance carving ✓ Select appropriate tools and machine

V. Complete practical task in performing Sanding and polishing of carving work	 Perform sanding on stone Use the flexible shaft machine for sanding process Use the small disk of silicon carbide for engraving carve lines Sanding on the stone with 400 sanding wheel according to requirement Sanding on the stone with 600 sanding wheel according to requirement Sanding on the stone with 1000 sanding wheel according to requirement Sanding on the stone with 1000 sanding wheel according to requirement Use the abrasive for sanding with rubber wheel if required Perform polishing on stone Use the flexible shaft machine for polishing process Perform polishing of stone with cotton buff and diamond powder (0-2) rubber leather and wooden polishing abrasive for engraving carve lines. Perform polishing on the stone (aluminum oxide 6000 for pre polish) Perform polishing on the stone (aluminum oxide 1000 for pre polish)
2. Other requirements	• NA
3. Answer any questions your Assessor may have during the practical assessment	 My answers to questions are correct and demonstrate my understanding of the topics and their application

ASSESSOR JUDGEMENTGUIDE

Candidate Name	Father Name			
INSTRUCTIONS FOR ASSESSMENT PANEL	 THIS SECTION CONTAINS MINIMUM EVIDENCE REQUIREMEN The Assessment Panel will consist of three members: a Instructor and an expert from the private sector. The project brief will consist of integrated task requirem sufficient evidence of their competence in the skills requ The project brief must be suitable for the level of knowle The time frame for completion of assigned project brief 	registered / ents to enab uired to work edge and ski	le the ca as a Ge	ndidate to supply mstone carving
	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
perform Gemstone	During a practical assessment under observation by and assessor, the candidate correctly carried out the following tasks:			
Marking and sawing of stone	Mark stone for Cabochon making			
	Remove the unwanted areas with plier			
	Cut the marked stone with trim saw machine			-
Template marking on stone	Select size of cabochon on template			
	Perform template marking			
Prepare Cabochon as per template	Ensure adequate water supply for cutting process			
marking	Make necessary arrangements in workstation			
	prepare cabochon with grinding machine			
Doping and course grinding of stone	Arrange material for doping process			
	Fix stone on dope stick			
	Make smooth surface of stone			
	Perform course grinding at grit #180/#220/#260/#320			
Marking and sawing of stone	Mark stone for Cabochon making			
210116	Remove the unwanted areas with pliers			
	Mark stone and Cut with trim saw machine			
Prepare stone for cab making	Ensure adequate water supply for cutting process			
	Make necessary arrangements in work station to prepare stone for cab making			

	Adjust auto cab machine for cabochon Making	
Perform doping	Arrange material for doping process	
	Fix stone on dope stick	
	Fix of doped stone in auto cab making machine	
Prepare cabochon on auto cab machine	Ensure adequate water supply for cutting process	
	Adjust machine according to template	
	Execute the auto cab making	
Perform sanding on cab stone	Arrange sanding paper for sanding	
	Perform sanding on the stone with Grit# 400, #600, #1000 sanding paper according requirement	
Perform Sanding with Tumbler Machine	Identify and select appropriate sanding media	
	Mix sanding abrasive according to defined ratio of material and media	
	Add media with #600,#1000 abrasive to remove scratch	
Perform Polishing with Tumbler Machine	Select appropriate polishing media	
Machine	Use polishing abrasive according to defined ratio of material and media	
	Add media abrasive #600,#1000 (Aluminum oxide) for pre polish	
	Mix media with abrasive chrome oxide for polishing	
Required shape for basic carving from stone	Ensure adequate water supply for grinding process	
	Perform pre marking on stone for desired carving design	
	Perform removal of unwanted edges of stone as per marking	
	Finalize the basic shape on stone	
Perform basic carving	Select tools and machine for basic carving process	
	Install the carving tools in carving machine as per the requirement of the design	
	Select course grinding with grinding wheels	
	Perform basic carving and finalize the design	
Develop 3D design with china clay	Select China clay tools and machine	
	Develop prototype model with china clay according to design	

Extract required share for	Select appropriate tools		
Extract required shape for			
advance carving from		ļ	
stone	Perform per marking on stone		
	Perform removed of unwanted edge of stone as per marking		
	Finalize the 3D shape on stone		
	'		
	Select appropriate tools and machine		
Perform Advance carving	Select appropriate tools and machine		
	Mark points to stone according to model design	+	
	Perform shaping as per model design on stone		
	Finalize the 3D Carving work on stone		
	5		
Perform sanding on stone	Use the flexible shaft machine for sanding process		
	Use the small disk of silicon carbide for engraving carve lines		
	Sanding on the stone with 400 sanding wheel according to		
	requirement		
	Sanding on the stone with 600 sanding wheel according to		
	requirement		
	Sanding on the stone with 1000 sanding wheel according to		
	requirement		
	Use the abrasive for sanding with rubber wheel if required		
	.		
Perform polishing on stone	Use the flexible shaft machine for polishing process		
	Defense valiables of store with asther by ff and discussed		
	Perform polishing of stone with cotton buff and diamond powder (0-2) rubber leather and wooden polishing abrasive		
	for engraving carve lines.		
	Perform polishing on the stone (aluminum oxide 6000 for pre		
	polish)		

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS ON CANDIDATE PERFORMANCE
2. Answer any questions their Assessor may have during the practical assessment	Candidate answers to questions are correct and demonstrate understanding of the topics and their application.			
	Assessor to document all questions asked and candidate answers below. Use extra sheets if required and attach.			



LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OFASSESSMENT

instructions	 This section contains information regarding; Context of the assessment List of required tools and equipment. List of consumable items required during the service
1.Context of Assessment	This practical final project will be conducted in a Lapidary lab/workshop environment.
	Required tools, equipment and consumables will vary according to project brief.

2. Li	2. List of tools and equipment required				
S. No	Name of Items (tools and equipments)	Quantity			
01	Light source				
02	Aluminum pencil or permanent marker				
03	Plier diamond cutter				
04	Trim saw Machine and blade as per requirement				
05	Template with difference 6, 4 and 2 in oval shapes				
06	Faceting unit machine for smooth work				
07	Leather/ Rubber lap with abrasive				
08	Grinding Machine with diamond grinding wheel				
09	Sprit lamp				
10	Doping wax and dope sticks				
11	Abrasive wheel, grit 400 and 600 "cut off disc"				
12	Aluminum pencil or permanent marker				
13	Pliers with diamond coated tips				
14	Auto cab Machine				
15	Tumbler machine				
16	Carving Machine				
17	Flexible shaft Machine				
18	Trim saw machine 6"-8" blade				
19	Diamond coated carving tools kit				
20	Flexible shaft Machine				
21	Clamping device for holding stone				
22	Small disk of silicon carbide				

3. Li	3. List of consumables				
S. No	Name of Items	Quantity/Volume			
01	Rough stone				
02	Sanding paper grit #180/#220/#260/#320				
03	Wax				
04	Diamond Powder				
05	Chrome oxide, cerium oxide and aluminum oxide				
06	Cleaning cloth piece				
07	Stone for carving work				
08	China Clay				
09	Sanding paper waterproof (400, 600, 1000)				
10	Leather lab, rubber lap, buff				

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