

FINE ARTS (CERAMIST)

Assessment Package

National Vocational
Certificate Level 4

Version 1 - Dec 2014

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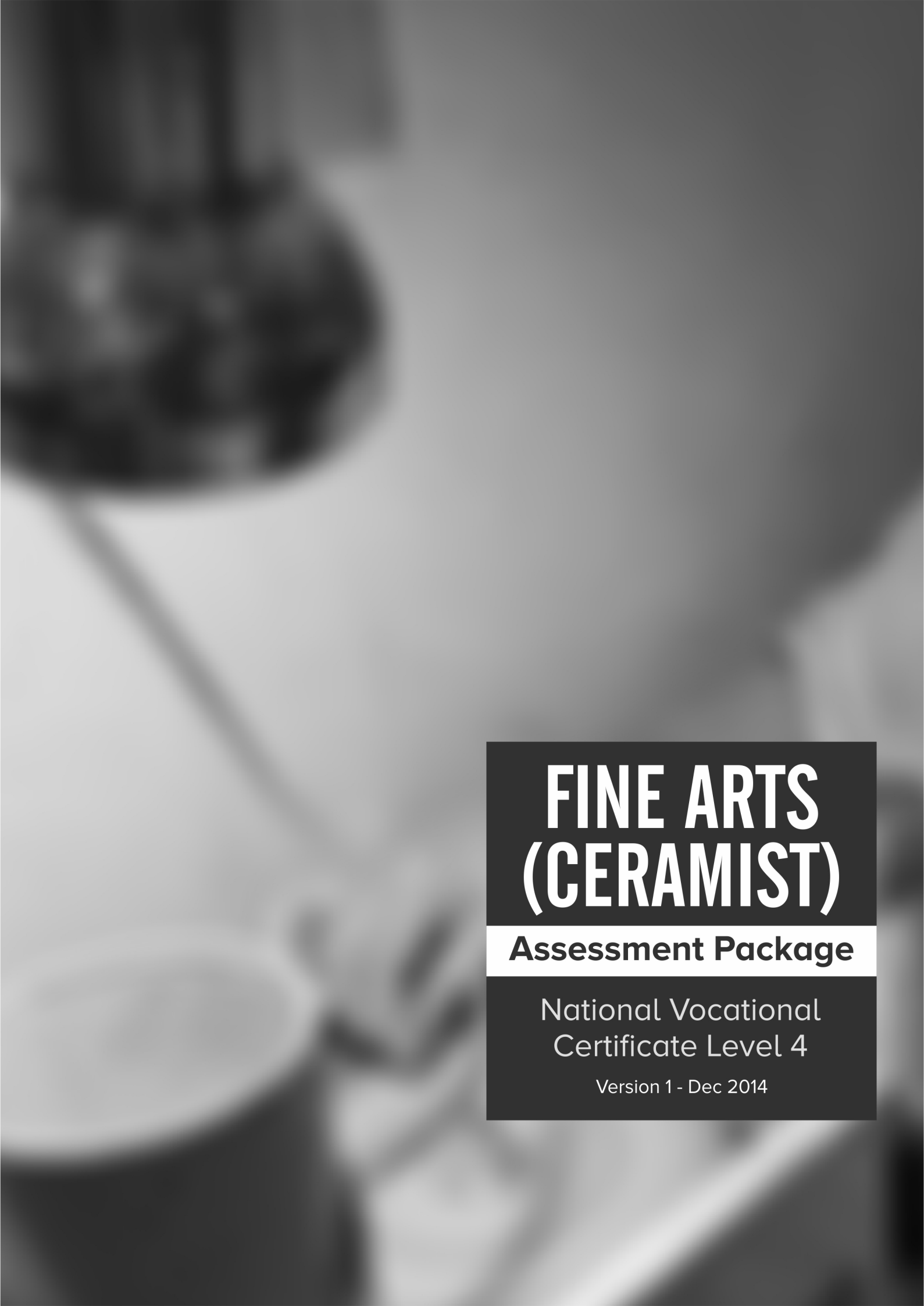
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Document Version

December, 2014
Islamabad, Pakistan



FINE ARTS (CERAMIST)

Assessment Package

National Vocational
Certificate Level 4

Version 1 - Dec 2014



ASSESSMENT MATERIAL

EVIDENCE GUIDE

Qualification

Fine Arts (Ceramist)

CS Code:

Level: 1

Credit: 19

Version: 1

PREPARE SLIP AND GLAZES

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

ASSESSMENT AND ASSESSOR DETAILS

Competent

☐

Not Yet Competent

☐

Assessment

☐

Re-Assessment

☐

Assessor's Name

Assessor's Code

Assessor's Signature

Date

DD	MM	YYYY							

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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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 coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to NAVTTTC

NAVTTTC OFFICE ONLY

1. DATE FORM RECEIVED:

DD	MM	YYYY							

2. DATE ENTERED INTO DATABASE:

DD	MM	YYYY							

1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PREPARE SLIP AND GLAZES	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	- Prepare material for slip and glazes by checking the adjustments the parameters of the slip and glazing - Follow occupational health and safety (OHS) and personal protective Equipment (PPE) for the tasks		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

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 complete the following tasks within **[two hours]** timeframe:

- Prepare material for slip and glazes by checking the adjustments the parameters of the slip and glazing
- Follow occupational health and safety (OHS) and personal protective Equipment (PPE) for the tasks

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of Prepare slip and glazes under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Prepare material for slip and glazes by checking the adjustments the parameters of the slip and glazing ✓ Select the material (soda feldspar, potash (colorant, dying purposes), quartz (layering crystalloid), talc (glazy or glossy surface), zirconia, corundum (use with lime stone crystal like sapphire melt on high heat), porcelain crucibles 30 ml, water and beakers). ✓ Measure the material before mixing by using weighing scale ✓ Feed crusher with the material and crush by using crushing equipment ✓ Mix material with water by operating ball mill (water has a specific gravity of 1 because 100 grams of water has a volume of 100 millilitres, specific gravity is expressed as the ratio of grams, between 1.000 and 2000 and normally 1.450 for the glazes) ✓ Prepare liquid glaze poured through an 80 or 60 mesh sieve into container to remove any lumps ✓ Calculate time to operate ball mill (Ball mills normally operate with an approximate ball charge of 30%. Ball mills are characterized by their smaller (comparatively) diameter and longer length, and often have a length 1.5 to 2.5 times the) ✓ Test the thickness of glaze after mixing ✓ Control the consistency of the glaze by using hydrometer ✓ Use weight scale for successive batches of glaze. ✓ Charge the blunder and operate pump ✓ Unload the ball mill ✓ Adjust the filter cloth in the plate ✓ Operate the filter press ✓ Disassemble the plates and collect cake from press ✓ Charge pug mill ✓ Operate pug mill ✓ Check vacuum pressure of pug mill (according to the pug mill machine model) ✓ Check and cut pugs (with cutting wire) ✓ Mix water and slip on standard scales (A gallon of water at 70 degrees weighs 8.3 lb. Lets say we weight out a gallon of slip and it weighs 14.4 lb. simply divide $14.4/8.3 = 1.73$. This is a ratio, it is generally accepted that 1.75 is good for slip) ✓ Check the gravity of the slip (weight measurement to get the specific gravity. $183\text{ g} = 1.83$ specific gravity. the weight of a graduated measuring container on a scale then fill it with 100 ml of slip and see how much it weighs in grams). • Follow occupational health and safety (OHS) and personal protective Equipment (PPE) for the tasks ✓ Protect yourself from inhaling ceramic powders ✓ Preventing skin absorption of soluble materials and avoiding eye injuries caused by the liquid glaze splashes during mixing ✓ Pay attention to the safety labels on ceramics materials mentioned on the materials ✓ In case of eye injury immediately apply fresh water to wash eyes ✓ Use rubber gloves during mixing process

2. Other requirements	
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.

3

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 of Prepare slip and glazes under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Prepare material for slip and glazes by checking the adjustments the parameters of the slip and glazing	Prepared material for slip and glazes by checking the adjustments the parameters of the slip and glazing			
	Selected the material (soda feldspar, potash (colorant, dying purposes), quartz (layering crystalloid), talc (glazy or glossy surface), zirconia, corundum (use with lime stone crystal like sapphire melt on high heat), porcelain crucibles 30 ml, water and beakers).			
	Measured the material before mixing by using weighing scale			
	Fed crusher with the material and crush by using crushing equipment			
	Mixed material with water by operating ball mill (water has a specific gravity of 1 because 100 grams of water has a volume of 100 millilitres, specific gravity is expressed as the ratio of grams, between 1.000 and 2000 and normally 1.450 for the glazes)			
	Prepared liquid glaze poured through an 80 or 60 mesh sieve into container to remove any lumps			
	Calculated time to operate ball mill (Ball mills normally operate with an approximate ball charge of 30%. Ball mills are characterized by their smaller (comparatively) diameter and longer length, and often have a length 1.5 to 2.5 times the)			
	Tested the thickness of glaze after mixing			
	Controlled the consistency of the glaze by using hydrometer			
	Used weight scale for successive batches of glaze.			
	Charged the blunder and operate pump			
	Unloaded the ball mill			
Follow occupational health and safety (OHS) and personal protective Equipment (PPE) for the tasks	Adjusted the filter cloth in the plate			
	Operated the filter press			
	Dissembled the plates and collect cake from press			
	Charged pug mill			
	Operated pug mill			
	Checked vacuum pressure of pug mill (according to the pug mill machine model)			
	Checked and cut pugs (with cutting wire)			
	Mixed water and slip on standard scales (A gallon of water at 70 degrees weighs 8.3 lb. Let's say we weight out a gallon of slip and it weighs 14.4 lb. simply divide $14.4/8.3 = 1.73$. This is a ratio, it is generally accepted that 1.75 is good for slip)			
	Checked the gravity of the slip			
	Protected yourself from inhaling ceramic powders			

	Prevented skin absorption of soluble materials and avoiding eye injuries caused by the liquid glaze splashes during mixing			
	Paid attention to the safety labels on ceramics materials mentioned on the materials			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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4

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/simulated environment.

2. List of tools and equipment required (for five candidates)		
S. No	Items	Quantity
1	Shuttle kiln with all accessories Volume 500 litre Maximum temperature 1300 deg C Fuel natural gas fired Blower as per specification of the kiln, suitable for oxidizing , reduction firing equipped with all tem/ fuel control system	1
2	Portable spray gun Ball mill Pug mill Weighing scale Magnetic separator Analytical weighting scale	1

3. List of consumable items required (for five candidates)		
S. No	Items	Quantity
1	soda feldspar	2 Ton
2	potash	2 Ton
3	Quartz	2 Ton
4	Talc	500 kg
5	Zirconia	300 kg
6	Corundum	100 kg
7	Porcelain Crucibles	40 No
8	Beakers	50 No



ASSESSMENT MATERIAL

EVIDENCE GUIDE

Qualification

Fine Arts (Ceramist)

CS Code:

Level: 3

Credit: 19

Version: 1

PREPARE MODEL & MOULD

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

ASSESSMENT AND ASSESSOR DETAILS

Competent

☐

Not Yet Competent

☐

Assessment

☐

Re-Assessment

☐

Assessor's Name

Assessor's Code

Assessor's Signature

Date

DD	MM	YYYY							

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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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

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DD	MM	YYYY							

1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PREPARE MODEL & MOULD	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	- Make design of ceramic dinner plate of 12 inches similar to the design given in Annexure A - Make model of a plate & mould of dinner plate		
Knowledge Assessment		✓			Answer all questions your assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

2

CANDIDATE ASSESSMENT

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 complete the following tasks within **[four hours]** timeframe:

- Make design of ceramic dinner plate of 12 inches similar to the design given in Annexure A
- Make model of a plate & mould of dinner plate

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of Prepare Model & Mould under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Make design of ceramic an average dinner plate ✓ Draw the model drawing with measurements as per given design ✓ Draw design structure according to dinner plate size ✓ Design the surface of the model by using given design in annexure B • Make a model of required product ✓ Select the material (china clay, ball clay and pottery clay) for the making of ceramic dinner plate ✓ Mix water and clay by using pug mill as per product 30% of water level ✓ Make key model in small size in desired design and shape on modelling wheel ✓ Extract details of a design by using clay tools ✓ Use water spray to keep model wet ✓ Use of sand paper to clear the surface and finalize finished product ✓ Make a mould of dinner plate size 12" ✓ Measure water and lime stone for the making of mould paste in plaster mixing machine (for the base of the mould on room temperature or 70°F (21°C)) ✓ Leave paste of lime stone for 2 minutes ✓ Make a square of kiln furniture (like Sic Slabs) support by the brick ✓ Pore lime stone at the half of the kiln furniture (like Sic Slabs) level ✓ Place a model dinner plate on the surface (use a sample dinner plate for the making of mould) ✓ Measure water and lime stone for the making of mould paste in plaster mixing machine (for the top of the mould) ✓ Make distinction between two parts of the mould by using wax or petroleum jelly ✓ Check the leakage and thickness of mould ✓ Check water and temperature level by using hydrometer ✓ Remove model from the mould by using the carpenter saw apply on the edges of the mould ✓ Clear the mould by using chiselling tools finalize edges and line ✓ Use "0" size sand paper to smoothen surface and design
2. Other requirements	• Provide verified evidence of ceramic plate size 12 inches designed and produced by the candidate
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.

3

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 of Prepare Model & Mould under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Make design of the desired product	Drawn the model drawing with measurements as per given design			
	Drawn design structure according to dinner plate size			
	Designed the surface of the model by using given design in annexure B			
Making of model of required product	Selected the material (china clay, ball clay and pottery clay) for the making of ceramic dinner plate			
	Mixed water and clay by using pug mill as per product 30% of water level			
	Made key model in small size in desired design and shape on modelling wheel			
	Extracted details of a design by using clay tools			
	Used water spray to keep model wet			
	Used of sand paper to clear the surface and finalize finished product			
	Made a mould of dinner plate size 12"			
	Measured water and lime stone for the making of mould paste in plaster mixing machine (for the base of the mould)			
	Left paste of lime stone for 2 minutes			
	Made a square of kiln furniture (like Sic Slabs) support by the brick			
	Pored lime stone at the half of the kiln furniture (like Sic Slabs) level			
	Placed a model dinner plate on the surface (use a sample dinner plate for the making of mould)			
	Measured water and lime stone for the making of mould paste in plaster mixing machine (for the top of the mould on room temperature or 70°F (21°C))			
	Made distinction between two parts of the mould by using wax or petroleum jelly			
	Checked the leakage and thickness of mould			
	Checked water and temperature level by using hydrometer			
	Removed model from the mould by using the carpenter saw apply on the edges of the mould			
	Cleared the mould by using chiselling tools finalize edges and line			
	Used "0" size sand paper to smoothen surface and design			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment

Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.

Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.

4

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/simulated environment.

2. List of tools and equipment required (for five candidates)		
S. No	Items	Quantity
1	Green wares like: ✓ Bowls ✓ Basins ✓ Bricks ✓ Basins	
2	Portable spray gun	1
3	Modelling wheel	1
4	Plaster mixing machine	1
5	Analytical weighting scale	1
6	Insulating wool	1
7	Bucket, jugs	5 set
8	Spoons & whisks	10 No
9	Kiln Furniture like Sic Slabs	10 No
10	Forged steel tools	5
11	Variety of files knives gouges, chisels	5 sets
12	Tub 20 L	5
13	Hydrometer	1

3. List of consumable items required (for five candidates)		
S. No	Items	Quantity
1	Led Pencils B2 B4	15
2	Drawing sheets	15
3	Erasers	5
4	Sharpeners	5
5	Tracing papers	15
6	Pottery Clay	30 kg
7	Sponges	5 set
8	Lime stone	20kg
9	Sand paper "O" size	15

Annexure 1



**Qualification**

Fine Arts (Ceramist)

CS Code:**Level: 3****Credit: 16****Version: 1****FORM ARTICLES BY APPLYING DIFFERENT TECHNIQUES****CONTENTS**

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

ASSESSMENT AND ASSESSOR DETAILS**Competent**☐**Not Yet Competent**☐**Assessment**☐**Re-Assessment**☐

Assessor's Name

Assessor's Code

Assessor's Signature

Date

DD	MM	YYYY									

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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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.

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ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: FORM ARTICLES BY APPLYING DIFFERENT TECHNIQUES	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	Form the article by use the technique of casting pressing and jiggering		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

2

CANDIDATE ASSESSMENT

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 complete the following tasks within **[four hours]** timeframe:

- Form the article by use the technique of casting pressing and jiggering

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of form articles by applying different techniques under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : - Form the article by use the technique of casting ✓ Clean mould by using various tool (scraper chisels) ✓ Check the thickness and thin areas of the mould (Apply lime stone paste for the repairing of the mould if needed) ✓ Level the mould before filling ✓ Apply dry lubricant at the inner sides of the mould ✓ Combine part of the mould ✓ Make a suitable holes for filling in the mould ✓ Prepare the slip) for the filling purpose (A gallon of water at 70 degrees weighs 8.3 lb. Lets say we weight out a gallon of slip and it weighs 14.4 lb. simply divide 14.4/8.3= 1.73. This is a ratio, it is generally accepted that 1.75 is good for slip (by using lime stone binder and water) ✓ Check the gravity of slip by Torsion balance viscometer (weight measurement to get the specific gravity. 183 g = 1.83 specific gravity. the weight of a graduated measuring container on a scale then fill it with 100 ml of slip and see how much it weighs in grams). ✓ Fix the clumps to close mould ✓ Pour slip (slowly) ✓ Drain the excess slip from the mould ✓ Check room temperature (for the base of the mould on room temperature or 70°F (21°C) ✓ Leave mould for drying (time 4 hours) - Form the article by use the technique of pressing ✓ Make the granulate manually (with the thickness of 5/8) ✓ Use granulate in hydraulic press ✓ Fix die in the press ✓ Identify the size of granulate (granulation (200 mesh) and uniaxial pressing (50 MP a)) ✓ Drain excess slip from mould Identify the size of the granulate and make it manually ✓ Operate the manual or hydraulic press to generate force ✓ Apply the force for pressing (calculation of pressing formula: $P = A \alpha [n(1 - C) - j n 1 - C 1 - C (1 - c / prel,0)]$ Where P is pressure, C is degree of compression, prel,0 is the initial relative density and A and α are parameters.) - Form the article by use the technique of jiggering ✓ Operate the filter press (be fixing the filter pipe) ✓ Fix the filler cloth ✓ Operate the pug mill (pressure range forming is 0.1 -0.75 MP a (15-110 psi) ✓ Operate the filter press by fixing the pipes to the filter press ✓ Fix the filter cloth ✓ Apply lubricant on machines parts ✓ Adjust the wire cut ✓ Operate jiggering and jollying ✓ Check heat level during operating the machine

2. Other requirements	• N/A
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.

3

ASSESSOR JUDGEMENT GUIDE

Candidate's NameFather'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 of form articles by applying different techniques under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Form the article by use the technique of casting	Cleaned mould by using various tool (scraper chisels)			
	Checked the thickness and thin areas of the mould (Apply lime stone paste for the repairing of the mould if needed)			
	Levelled the mould before filling			
	Applied dry lubricant at the inner sides of the mould			
	Combined part of the mould			
	Made a suitable holes for filling in the mould			
	Prepared the slip) for the filling purpose (A gallon of water at 70 degrees weighs 8.3 lb. Lets say we weight out a gallon of slip and it weighs 14.4 lb. simply divide 14.4/8.3= 1.73. This is a ratio, it is generally accepted that 1.75 is good for slip (by using lime stone binder and water)			
	Checked the gravity of slip by Torsion balance viscometer (weight measurement to get the specific gravity. 183 g = 1.83 specific gravity. the weight of a graduated measuring container on a scale then fill it with 100 ml of slip and see how much it weighs in grams).			
	Fixed the clumps to close mould			
	Poured slip into the mould (slowly)			
	Drained the excess slip from the mould			
	Checked room temperature (for the base of the mould on room temperature or 70°F (21°C)			
	Left mould for drying (time 4 hours)			
Form the article by use the technique of pressing	Made the granulate manually (with the thickness of 5/8)			
	Used granulate in hydraulic press			
	Fixed die in the press			
	Identified the size of granulate (granulation (200 mesh) and uniaxial pressing (50 MP a))			
	Drained excess slip from mould Identify the size of the granulate and make it manually			
	Operated the manual or hydraulic press to generate force			
	Applied the force for pressing (calculation of pressing formula: $P = A [n(1 - C) - jn 1 - C 1 - C (1 - c / prel,0)]$ Where P is pressure, C is degree of compression, prel,0 is the initial relative density and A and α are parameters.)			
	Operated the filter press (be fixing the filter pipe)			
	Fixed the filler cloth			

	Operated the pug mill (pressure range forming is 0.1 -0.75 MP a (15-110 psi)			
	Operated the filter press by fixing the pipes to the filter press			
	Fixed the filter cloth			
	Adjusted the wire cut			
	Applied lubricant on machines parts			
	Operated jiggering and jollying			
	Checked heat level during operating the machine			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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4

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/simulated

2. List of tools and equipment required(for five candidates)		
S. No	Items	Quantity
1	Scraper	5
	Clamps	15
	Hydraulic press	1
	Filter	5
	Weighing scale	5
	Hacksaw blades	10
	Plaster turning tool set	5
	Plaster mixing machine	1
	Lab scale kiln	1
	Filter cloth	500 meters
	Torsion balance viscometer	100 meter

3. List of consumable items required(for five candidates)		
S. No	Items	Quantity
	Dry lubricant	5 litre
2	blades	5 set
3	Sponges	10



Qualification
Fine Arts (Ceramist)
CS Code:
Level: 2
Credit: 8
Version: 1

PERFORM DIFFERENT TECHNIQUES OF DRYING

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

ASSESSMENT AND ASSESSOR DETAILS

Competent	☐	Not Yet Competent	☐																			
Assessment	☐	Re-Assessment	☐																			
Assessor's Name		Assessor's Code																				
Assessor's Signature		Date																				
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DD	MM							YYYY														

CANDIDATE DETAILS

Candidate's Name
First Name Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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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.

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1. DATE FORM RECEIVED:	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DD</td><td>MM</td><td colspan="6"></td><td>YYYY</td></tr></table>											DD	MM							YYYY	2. DATE ENTERED INTO DATABASE:	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DD</td><td>MM</td><td colspan="6"></td><td>YYYY</td></tr></table>											DD	MM							YYYY
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1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PERFORM DIFFERENT TECHNIQUES OF DRYING	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	After using these techniques candidate will be able to perform different type of drying techniques		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

2

CANDIDATE ASSESSMENT

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 complete the following tasks within **[five hours]** timeframe:

- Perform different techniques of drying

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of perform different techniques of drying under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Perform different techniques of drying ✓ Use sun light or open air to dry the article ✓ Place article at desired place ✓ Identify the method of drying (air or sun light) ✓ Operate conveyor belt technique for drying (The steel plates are pulled around by a roller chain) ✓ Maintain heat level (made of the air from stables, which has a temperature of approximately 20° C) ✓ Maintain the air humidity ✓ Maintain the air ✓ Save the dried articles in the storage bin ✓ Use air channels to transport the air from the heat source to the dryer ✓ Use spray dryer to dry the article ✓ Dry the slip to make granulates by using spray dryer
2. Other requirements	• N/A
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.

3

ASSESSOR JUDGEMENT GUIDE

Candidate's NameFather'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 of perform different techniques of drying under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks: :			
Preform different techniques of drying	Used sun light or open air to dry the article			
	Placed article at desired place			
	Identified the method of drying (air or sun light)			
	Operated conveyor belt technique for drying (The steel plates are pulled around by a roller chain)			
	Maintained heat level (made of the air from stables, which has a temperature of approximately 20° C)			
	Maintained the air humidity			
	Maintained the air level			
	Saved the dried articles in the storage bin			
	Used air channels to transport the air from the heat source to the dryer			
	Used spray dryer to dry the article			
	Dried the slip to make granulates by using spray dryer			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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4

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/simulated

2. List of tools and equipment required(for five candidates)		
S. No	Items	Quantity
1	Conveyer belt	1
2	Storage bin	5

3. List of consumable items required(for five candidates)		
S. No	Items	Quantity
1	Spray Dryer	5
2	Sponges	5

**Qualification**

Fine Arts (Ceramist)

CS Code:**Level: 2****Credit: 20****Version: 1****PERFORM FINISHING AND JOINING****CONTENTS**

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

ASSESSMENT AND ASSESSOR DETAILS**Competent**☐**Not Yet Competent**☐**Assessment**☐**Re-Assessment**☐

Assessor's Name _____ Assessor's Code _____

Assessor's Signature _____ Date _____

DD	MM	YYYY							

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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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 FORMYou can use this coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to **NAVTTTC****NAVTTTC OFFICE ONLY**1. DATE
FORM
RECEIVED:

DD	MM	YYYY							

2. DATE ENTERED INTO
DATABASE:

DD	MM	YYYY							

1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PERFORM FINISHING AND JOINING	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	- Join the joints of the article and Cut the prescribe area according to drawing - Perform finishing of the article		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

2

CANDIDATE ASSESSMENT

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 complete the following tasks within **five hours** timeframe:

- Join the joints of the article and Cut the prescribe area according to drawing
- Perform finishing of the article

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of perform finishing and joining under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Join the joints of the article ✓ Identify the green ware piece (like hole crack pin hole) ✓ Check the moisture of the green ware piece ✓ Use plaster wheel to check the inspect ✓ Remove unwanted pieces from the article ✓ Identify the tools ✓ Use cutting tools ✓ Remove grey areas according to the drawing drawn by the candidate ✓ Identify the article pieces for joining ✓ Prepare paste to joint these pieces ✓ Apply the paste of the joints ✓ Ensure the cleaning of the surface after joining the pieces ✓ Finalise product with different carving tools to clear lines and details
2.Other requirements	• N/A
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.

3

ASSESSOR JUDGEMENT GUIDE

Candidate's NameFather'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 of perform finishing and joining under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Join the joints of the article	Identified the green ware piece (like hole crack pin hole)			
	Checked the moisture of the green ware piece			
	Used plaster wheel to check the inspect			
	Removed unwanted pieces from the article			
	Identified the tools			
	Used cutting tools			
	Removed grey areas according to the drawing drawn by the candidate			
	Identified the article pieces for joining			
	Prepared paste to joint these pieces			
	Applied the paste of the joints			
	Ensured the cleaning of the surface after joining the pieces			
	Finalised product with different carving tools to clear lines and details			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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4

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/simulated

2. List of tools and equipment required(for five candidates)		
S. No	Items	Quantity
1	Surform blades	10
2	Forged steel tools	5
3	Variety of files knives, gouges, chisels	5 sets

3. List of consumable items required(for five candidates)		
S. No	Items	Quantity
1	Spray Dryer	5
2	Sponges	10



	DECORATE ARTICLES	
Qualification Fine Arts (Ceramist) CS Code: Level: 2 Credit: 18 Version: 1		
CONTENTS	1. Assessment Summary and Record 2. Candidate Assessment 3. Assessor Judgment Guide 4. List of required tools/equipment, material and context of assessment	
ASSESSMENT AND ASSESSOR DETAILS	Competent ☐ Not Yet Competent ☐	
	Assessment ☐ Re-Assessment ☐	
	Assessor's Name _____ Assessor's Code _____ Assessor's Signature _____ Date _____	DD MM YYYY
CANDIDATE DETAILS	Candidate's Name _____	
	First Name Last Name	
	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 coversheet as an <i>Assessment Results Summary Form</i> . Simply post a photocopy of this completed coversheet to NAVTTTC	
NAVTTTC OFFICE ONLY	1. DATE FORM RECEIVED: _____ DD MM YYYY 2. DATE ENTERED INTO DATABASE: _____ DD MM YYYY	

1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: DECORATE ARTICLES	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	Designing the article by using different techniques		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

2

CANDIDATE ASSESSMENT

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 complete the following tasks within **five hours** timeframe:

- Designing the article by using different techniques

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of decorate articles under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Join the joints of the article ✓ Draw a design (check annexure 1) ✓ Make design for glazing decoration ✓ Sketch design on green ware article ✓ Prepare colour solution ✓ Clean surface of article and remove particles ✓ Apply glaze on dry surface of article ✓ Apply glaze carefully (because wet glaze quickly absorb by the dry surface of the article) ✓ Make slip to get desired colour for the article (To prepare the slip, takes 100 grams of small pieces of bone dry clay and adds 10-50 grams of a stain. The percentages of stains vary according to the intensity of colour). ✓ Make engraving by using cutting tool ✓ Engrave and scratch design on the surface of the article ✓ Make pattern by engraving article ✓ Select a embossing design ✓ Use embossing tool to draw pattern ✓ Transfer selected design on article surface ✓ Use the technique of lustre (hand painting on the product) ✓ Use lustre applying brushes ✓ Use the technique of sticker (use a sticker on the surface and stick it with the help of glue) ✓ Apply spray on the surface ✓ Use the technique of screen printing ✓ Use a simple glaze ✓ Create a pudding-like texture that made the glaze uncooperative for pouring or dipping. ✓ use to carry dye through the silk screens ✓ Hold a thick enough deposit of glaze to properly transfer a three-dimensional coating to the bisque ware. ✓ Transfer all pattern on to the article ✓ Use glaze Apply engobe method (engobe use with slip and colours and then on bisque fire ware slip is a thin layer of clay and water) ✓ Use tools for engobe method (like slip dropper, trays, spoons) ✓ Use of sponge for cleanliness of the surface ✓ Use of spray for engobe method ✓ Use lab scale kiln (max temperature 1200 deg C volume 20 L)
2.Other requirements	• N/A

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.
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Candidate's NameFather'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 of decorate articles under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Join the joints of the article	Joined the joints of the article			
	Drawn a design			
	Made design glazing decoration			
	Sketched design on green ware			
	Prepared colour solution			
	Cleaned surface of article and remove particles			
	Applied glaze on dry surface of article			
	Applied glaze carefully (because wet glaze quickly absorb by the dry surface of the article)			
	Made slip to get desired colour for the article (To prepare the slip, takes 100 grams of small pieces of bone dry clay and adds 10-50 grams of a stain. The percentages of stains vary according to the intensity of colour).			
	Made engraving by using cutting tool			
	Engraved and scratch design on the surface of the article			
	Made pattern by engraving article			
	Selected a embossing design			
	Used embossing tool to draw pattern			
	Transferred selected design on article surface			
	Used the technique of lustre (hand painting on the product)			
	Used lustre applying brushes			
	Used the technique of sticker (use a sticker on the surface and stick it with the help of glue)			
	Applied spray on the surface			
	Used the technique of screen printing			
	Used a simple glaze			
	Created a pudding-like texture that made the glaze uncooperative for pouring or dipping.			
	used to carry dye through the silk screens			
	Hold a thick enough deposit of glaze to properly transfer a three-dimensional coating to the bisque ware.			
	Transferred all pattern on to the article			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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4

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/simulated

2. List of tools and equipment required(for five candidates)		
S. No	Items	Quantity
1	Brushes	5 set
2	Engraving tool	5 set
3	Portable spray gun	5
4	Compasses	5
5	Lab scale Klin	5

3. List of consumable items required(for five candidates)		
S. No	Items	Quantity
1	Drawing sheet	5
2	Eraser	5
3	Pencil	1 box
4	Pigments	12
5	Pattern	10
6	Sketch book	5
7	Tracing paper	15
8	Printing Screen	10
9	Spoon	1 set
10	Tray	5

Annexure 1





Qualification
Fine Arts (Cerapist)
CS Code
Level2
Credit19
Version1

DEMONSTRATE GLAZE APPLICATION METHODS

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

ASSESSMENT AND ASSESSOR DETAILS

Competent

☐

Not Yet Competent

☐

Assessment

☐

Re-Assessment

☐

Assessor's Name _____ Assessor's Code _____

Assessor's Signature _____ Date _____

DD		MM		YYYY							

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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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

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DATABASE:

DD		MM		YYYY							

1

ASSESSMENT SUMMARY RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: DEMONSTRATE GLAZE APPLICATION METHODS	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	- Perform different methods of glaze application on green ware (spraying, brushing, dipping and pouring) - Carful for the safety measure by understanding the importance of safe & clean work area		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

2

CANDIDATE ASSESSMENT

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

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

GUIDANCE TO CANDIDATE

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

- Perform different methods of glaze application on green ware (spraying, brushing, dipping and pouring)
- Careful for the safety measure by understanding the importance of safe & clean work area

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of demonstrate glaze application methods under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Perform different methods of application of the glaze on green ware ✓ Use spray booth for the application of glazing (The booth is 36 inches wide by 48 inches tall by 24 inches deep, and is located to the left rear of the glaze room, behind the bisque ware storage rack. It is connected to a powerful exhaust duct, and has a dedicated air compressor to operate standard spray guns). ✓ Fill spray with the help of spoon for glazing ✓ Adjust nozzle and ✓ Start the exhaust fan of the booth spray ✓ Place a piece in spray booth ✓ Adjust the glaze thickness (use slips, adjust the specific gravity to about the same as a glaze (1.3 to 1.6)) ✓ Tank Pressure increase to about 150 PSI. (The Output Pressure should be much lower: 35 to 50 PSI. Adjust up (+) or down (-) with the Output Pressure Adjustment Knob. Low as 20 psi; glaze comes out more gently and with less blow-by as pressure is decreased). ✓ Clean spray booth after spraying ✓ Sponge down the booth (save booth from remnant dried glaze doesn't turn into dust in the air. Leave the booth in a cleaner condition than you found it). ✓ Turn off the exhaust fan; return both cardboards to their original location. ✓ Turn the compressor switch to OFF ✓ Use brush for glazing. ✓ Save article from dust during applying brushes. ✓ Remove the wet paint until things look perfect ✓ Apply dipping method (dipping will give an even layer to the article) ✓ Pour glaze in a bucket ✓ Hold article with clipper (carefully) ✓ Dip article with the help of clipper in to the bucket fill by glaze. ✓ Cover all sides of the article with glazing layer ✓ Dip twice for the good finish ✓ apply glaze by pouring on the article ✓ use of conveyor belt for pouring glaze ✓ Operate conveyor belt technique for pouring glaze (The steel plates are pulled around by a roller chain) ✓ Maintain heat level (made of the air from stables, which has a temperature of approximately 20° C) ✓ Maintain the air humidity ✓ Maintain the air ✓ pour glaze into the article for 3 seconds ✓ flick off excess glaze from the article ✓ use sponge to clear excess glaze from article ✓ clean work area or working lab ✓ use rubber gloves

2. Other requirements	• N/A
3. Answer any questions you may have during the practical assessment	My answers to questions are correct and demonstrate my understanding of the topics and their application.

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

**INSTRUCTION
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 demonstrate glaze application methods under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Perform different methods of application of the glaze on green ware	Use spray booth for the application of glazing (The booth is 36 inches wide by 48 inches tall by 24 inches deep, and is located to the left rear of the glaze room, behind the bisque ware storage rack. It is connected to a powerful exhaust duct, and has a dedicated air compressor to operate standard spray guns).			
	Fill spray with the help of spoon for glazing			
	Adjust nozzle			
	Start the exhaust fan of the booth spray			
	Place a piece in spray booth			
	Adjust the glaze thickness (use slips, adjust the specific gravity to about the same as a glaze (1.3 to 1.6)			
	Increase Tank Pressure to about 150 PSI. (The Output Pressure should be much lower: 35 to 50 PSI. Adjust up (+) or down (-) with the Output Pressure Adjustment Knob. Low as 20 psi; glaze comes out more gently and with less blow-by as pressure is decreased).			
	Clean spray booth after spraying			
	Sponge down the booth (save booth from remnant dried glaze doesn't turn into dust in the air. Leave the booth in a cleaner condition than you found it).			
	Turn off the exhaust fan; return both cardboards to their original location.			
	Turn the compressor switch to OFF			
	Use brush for glazing.			
	Save article from dust during applying brushes.			
	Remove the wet paint until things look perfect			
	Apply dipping method (dipping will give an even layer to the article)			
	Pour glaze in a bucket			
	Hold article with clipper (carefully)			
	Dip article with the help of clipper in to the bucket fill by glaze.			
	Cover all sides of the article with glazing layer			
	Dip twice for the good finish			
	apply glaze by pouring on the article			
	use of conveyer belt for pouring glaze			
	Operate conveyor belt technique for pouring glaze (The steel plates are pulled around by a roller chain)			
	Maintain heat level (made of the air from stables, which has a temperature of approximately 20°C)			

	Maintain the air humidity			
	Maintain the air			
	pour glaze into the article for 3 seconds			
	flick off excess glaze from the article			
	use sponge to clear excess glaze from article			
	clean work area or working lab			
	use rubber gloves			
2. Other requirements	N/A			

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

4

LIST OF TOOLSEQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

INSTRUCTION	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/ simulated

2. List of tools and equipment required for five candidates		
S. No	Items	Quantity
1	Brushes	1 set
2	Tub 20 L	5
3	Clipper	1 set
4	Bucket	5
5	Conveyer belt	1

3. List of consumable items required (for five candidates)		
S. No	Items	Quantity
1	Spoon	1 set
2	Tray	5

Annexure 1



**Qualification**

Fine Arts (Ceramist)

CS Code:**Level: 2****Credit: 19****Version: 1****PERFORM KILN FIRING****CONTENTS**

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgment Guide
4. List of required tools/equipment, material and context of assessment

ASSESSMENT AND ASSESSOR DETAILS**Competent**☐**Not Yet Competent**☐

Assessment

☐

Re-Assessment

☐

Assessor's Name

Assessor's Code

Assessor's Signature

Date

DD		MM		YYYY							

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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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

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1. DATE FORM RECEIVED:

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2. DATE ENTERED INTO DATABASE:

DD		MM		YYYY							

1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PREPARE TO CARRY OUT HVAC WORK	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	Perform kiln firing		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		[List all other requirements]		

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 complete the following tasks within **[three hours]** timeframe:

- Perform kiln firing

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of demonstrate glaze application methods under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Perform kiln firing ✓ Store green ware for kiln firing ✓ Check the loading capacity of kiln slabs (500 litres) ✓ Check kiln pressure of the kiln ✓ Never load wet ware. ✓ Use lubricant to move parts in kiln ✓ Insulate the hot area by insulating wool ✓ Clean control panel and slabs ✓ Identify the change need of slabs ✓ Check air gas ratio ✓ Use vacuum cleaner to clear electronic parts ✓ Identify the need for calibration of thermocouples ✓ Replace damaged refractory bricks ✓ Identify the trouble shooting phenomena in kiln ✓ Restart after power shutdown ✓ Purge the kiln before every starting cycle
2. Other requirements	• N/A
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.

3

ASSESSOR JUDGEMENT GUIDE

Candidate's NameFather'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 of demonstrate glaze application methods under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
	Stored green ware for kiln firing			
	Checked the loading capacity of kiln slabs (500 litres)			
	Checked kiln pressure of the kiln			
	Used lubricant to move parts in kiln			
	Insulated the hot area by insulating wool			
	Cleaned control panel and slabs			
	Identified the change need of slabs			
	Checked air gas ratio			
	Used vacuum cleaner to clear electronic parts			
	Identified the need for calibration of thermocouples			
	Replaced damaged refractory bricks			
	Identified the trouble shooting phenomena in kiln			
	Restarted after power shutdown			
	Purged the kiln before every starting cycle			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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4

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/simulated

2. List of tools and equipment required(for five candidates)		
S. No	Items	Quantity
1	Kiln furniture slabs Fuel fire and gas1	1
2	Blower as per specific of the kiln suitable for the oxidizing & reduction	1

3. List of consumable items required(for five candidates)		
S. No	Items	Quantity
1	Lubricant	1
2	Spoon	5



Qualification Fine Arts (Ceramist) CS Code: Level: 2 Credit: 160 Version: 1		FINE ARTS (CERAMIST)																																									
CONTENTS		1. Assessment Summary and Record 2. Candidate Assessment 3. Assessor Judgment Guide 4. List of required tools/equipment, material and context of assessment																																									
ASSESSMENT AND ASSESSOR DETAILS		Competent ☐ Not Yet Competent ☐																																									
		Assessment ☐ Re-Assessment ☐																																									
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CANDIDATE DETAILS		Candidate's Name _____ First NameLast Name																																									
		Father's Name _____																																									
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		Registration Number issued by Assessment Body _____																																									
		Gender Male ☐ Female ☐ Transgender ☐																																									
Candidate's Consent _____ 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 coversheet as an <i>Assessment Results Summary Form</i> . Simply post a photocopy of this completed coversheet to NAVTTTC																																									
NAVTTTC OFFICE ONLY		1. DATE FORM RECEIVED: <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DD</td><td>MM</td><td>YYYY</td><td colspan="7"></td></tr></table> 2. DATE ENTERED INTO DATABASE: <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DD</td><td>MM</td><td>YYYY</td><td colspan="7"></td></tr></table>												DD	MM	YYYY																		DD	MM	YYYY							
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1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF QUALIFICATION: CERAMIST	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	- Draw drawing of article annexure 1 - Make a mould of desired product - Make article with the help of casting technique - Apply glazing with the technique of dipping		
Knowledge Assessment		✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

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 complete the following tasks within **five hours** timeframe:

- Draw drawing of article annexure 1
- Make a mould of desired product
- Make article with the help of casting technique
- Apply glazing with the technique of dipping

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of Ceramist under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Draw drawing of article ✓ Draw the model drawing with measurements as per given design ✓ Draw design structure according to dinner plate size ✓ Design the surface of the model by using given design in annexure B • Make a mould of desired product ✓ Select the material (china clay, ball clay and pottery clay) for the making of ceramic dinner plate ✓ Mix water and clay by using pug mill as per product 30% of water level ✓ Make key model in small size in desired design and shape on modelling wheel ✓ Extract details of a design by using clay tools ✓ Use water spray to keep model wet ✓ Use of sand paper to clear the surface and finalize finished product ✓ Make a mould of dinner plate size 12" ✓ Measure water and lime stone for the making of mould paste in plaster mixing machine (for the base of the mould on room temperature or 70°F (21°C)) ✓ Leave paste of lime stone for 2 minutes ✓ Make a square of kiln furniture (like Sic Slabs) support by the brick ✓ Pore lime stone at the half of the kiln furniture (like Sic Slabs) level ✓ Place a model dinner plate on the surface (use a sample dinner plate for the making of mould) ✓ Measure water and lime stone for the making of mould paste in plaster mixing machine (for the top of the mould) ✓ Make distinction between two parts of the mould by using wax or petroleum jelly ✓ Check the leakage and thickness of mould ✓ Check water and temperature level by using hydrometer • Form the article by use the technique of casting ✓ Clean mould by using various tool (scraper chisels) ✓ Check the thickness and thin areas of the mould (Apply lime stone paste for the repairing of the mould if needed) ✓ Level the mould before filling ✓ Apply dry lubricant at the inner sides of the mould ✓ Combine part of the mould ✓ Make a suitable holes for filling in the mould ✓ Prepare the slip) for the filling purpose (A gallon of water at 70 degrees weighs 8.3 lb. Lets say we weight out a gallon of slip and it weighs 14.4 lb. simply divide $14.4/8.3 = 1.73$. This is a ratio, it is generally accepted that 1.75 is good for slip (by using lime stone binder and water) ✓ Check the gravity of slip by Torsion balance viscometer (weight measurement to get the specific gravity. $183\text{ g} = 1.83$ specific gravity. the weight of a graduated measuring container on a scale then fill it with 100 ml of slip and see how much it weighs in grams). ✓ Fix the clumps to close mould ✓ Pour slip (slowly)

	✓ Drain the excess slip from the mould ✓ Check room temperature (for the base of the mould on room temperature or 70°F (21°C)) ✓ Leave mould for drying (time 4 hours) • Apply glazing with the technique of dipping ✓ Save article from dust during applying brushes. ✓ Remove the wet paint until things look perfect ✓ Apply dipping method (dipping will give an even layer to the article) ✓ Pour glaze in a bucket ✓ Hold article with clipper (carefully) ✓ Dip article with the help of clipper in to the bucket fill by glaze. ✓ Cover all sides of the article with glazing layer ✓ Dip twice for the good finish
2. Other requirements	• Use the method for application of design surface and structure
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.

3

ASSESSOR JUDGEMENT GUIDE

Candidate's NameFather'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 of Ceramist under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Draw a drawing of desired product	Drew design structure according to dinner plate size			
	Drew the model drawing with measurements as per given design			
	Designed the surface of the model by using given design in annexure B			
Make a mould of desired product	Select the material (china clay, ball clay and pottery clay) for the making of ceramic dinner plate			
	Mixed water and clay by using pug mill as per product 30% of water level			
	Made key model in small size in desired design and shape on modelling wheel			
	Extracted details of a design by using clay tools			
	Used water spray to keep model wet			
	Used of sand paper to clear the surface and finalize finished product			
	Made a mould of dinner plate size 12"			
	Measured water and lime stone for the making of mould paste in plaster mixing machine (for the base of the mould on room temperature or 70°F (21°C)			
	Left paste of lime stone for 2 minutes			
	Made a square of kiln furniture (like Sic Slabs) support by the brick			
	Pored lime stone at the half of the kiln furniture (like Sic Slabs) level			
	Placed a model dinner plate on the surface (use a sample dinner plate for the making of mould)			
	Measured water and lime stone for the making of mould paste in plaster mixing machine (for the top of the mould)			
	Made distinction between two parts of the mould by using wax or petroleum jelly			
	Checked the leakage and thickness of mould			
	Checked water and temperature level by using hydrometer			
	Formed the article by using the technique of casting			
	Cleaned mould by using various tool (scraper chisels)			
	Checked the thickness and thin areas of the mould (Apply lime stone paste for the repairing of the mould if needed)			
	Level ed the mould before filling			
	Applied dry lubricant at the inner sides of the mould			
	Combined part of the mould			
	Made a suitable holes for filling in the mould			

	Prepared the slip) for the filling purpose (A gallon of water at 70 degrees weighs 8.3 lb. Lets say we weight out a gallon of slip and it weighs 14.4 lb. simply divide $14.4/8.3 = 1.73$. This is a ratio, it is generally accepted that 1.75 is good for slip (by using lime stone binder and water)			
	Checked the gravity of slip by Torsion balance viscometer (weight measurement to get the specific gravity. $183\text{ g} = 1.83$ specific gravity. the weight of a graduated measuring container on a scale then fill it with 100 ml of slip and see how much it weighs in grams).			
	Fixed the clumps to close mould			
	Poured slip (slowly)			
	Drained the excess slip from the mould			
	Checked room temperature (for the base of the mould on room temperature or 70°F (21°C)			
	Left mould for drying (time 4 hours)			
Apply glazing with the technique of dipping	Applied glazing with the technique of dipping			
	Saved article from dust during applying brushes.			
	Removed the wet paint until things look perfect			
	Applied dipping method (dipping will give an even layer to the article)			
	Poured glaze in a bucket			
	Hold article with clipper (carefully)			
	Dipped article with the help of clipper in to the bucket fill by glaze.			
	Covered all sides of the article with glazing layer			
	Dipped twice for the good finish			
2. Other requirements				

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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S. No	Items	Quantity
1	Lubricant	1
2	Spoon	5

Annexure 1



Annexure 2



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