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Document Version August, 2019 **Islamabad, Pakistan**

COMPUTER AIDED DESIGNING (CAD)

Assessment Package

National Vocational Certificate Level 3

Version 1 - August 2019

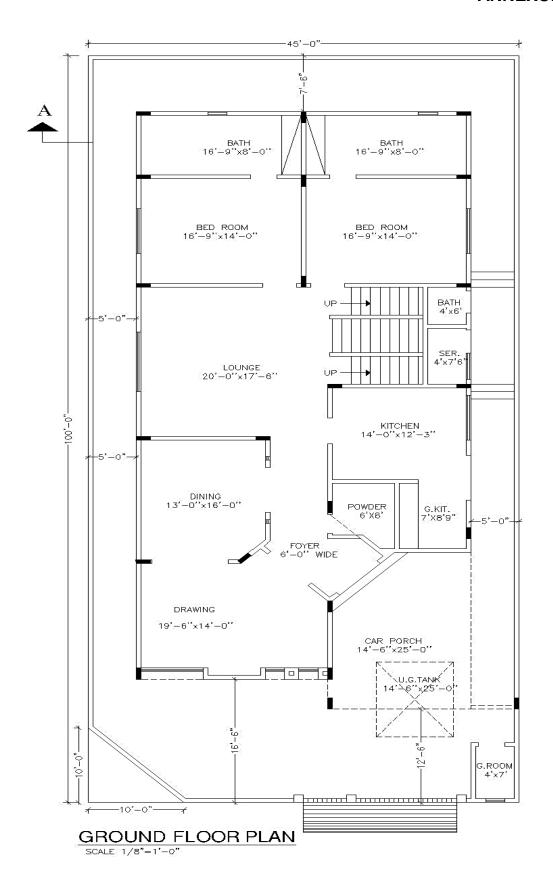
Self-Assessment Checklist

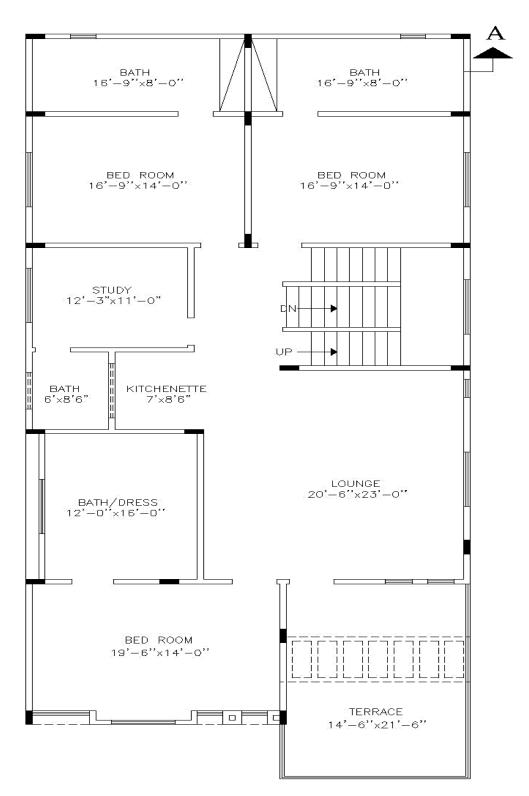
Candidate Name						
Registration No.						
Qualification	0611ICT09 National Vocational Certificate Leve Technology (REVIT & SKETCHUP)	l-3 in Inform	nation			
Competency Standard	061100492 Develop 3D Model using Autodesk I	REVIT				
Purpose of Assessment	Formative Assessment					
Assessment Task	Develop 3D House Model using given sample d A, while working with Families and Render the M with Light, Material and Camera Settings					
I can						
Performance Crite	eria	Yes	No			
Create custom use	r interface as per requirement of specific technology.					
2. Create and apply F						
3. Use common tools						
Create/import draw requirements.						
	mmands and tools to create building layouts.					
6. Modify drawings ar	nd objects to meet given criteria.					
7. Create 3D prototyp measurements.	e model of the drawing according to given					
8. Create specification	n/detail for various parts according to given					
requirements. 9. Apply specified det	ail to objects according to given requirements.					
10. Annotate the drawi	ngs using set parameters as per given details.					
11. Add scene of 3D m	odel according to specification					
12. Add lights for illumi	12. Add lights for illumination to get the requisite scene of 3D model.					
13. Assign cameras to execute different views of 3D Model.						
14. Render the 3D model according to required image size or resolution & orientation.						
Candidate's Signature	Assessor's Signature					

Instruction Sheet for the Candidate

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)				
Competency Standard	061100492 Develop 3D Model using Autodesk REVIT				
Purpose of Assessment	Formative Assessment				
Candidate Details	Name Registration/Roll Number				
	To meet this standard you are required to complete the following within 4 Hrs. time frame (for practical demonstration & assessment):				
Guidance for Candidate	 Develop 3D House Model using given sample drawing in Annexure— A, while working with Families and Render the Model in accordance with Light, Material and Camera Settings. Knowledge Assessment (Oral) Portfolio 				
Time: 4 hrs.	During a practical assessment, under observation by an assessor, you are required to "Develop 3D House Model as per drawing given in Annexure-A with Lights, Material & Camera use" demonstrating the following criteria:				
Minimum Evidence Required	 Create custom user interface as per requirement of specific technology. Create and apply Families for given specifications and requirements. Use common tools and commands to develop a model. Create/import drawings to make layout according to the given requirements. Use appropriate commands and tools to create building layouts. Modify drawings and objects to meet given criteria. Create 3D prototype model of the drawing according to given measurements. Create specification/detail for various parts according to given requirements. Apply specified detail to objects according to given requirements. Annotate the drawings using set parameters as per given details. Add scene of 3D model according to specification Add lights for illumination to get the requisite scene of 3D model. Render the 3D model according to required image size or resolution & orientation. 				

ANNEXURE-A





FIRST FLOOR PLAN

SCALE 1/8"=1'-0"

Assessors Judgment Guide

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)			
Competency Standard	061100492 Develop 3D Model using Autodesk REVIT			
Purpose of Assessment	Formative Assessment			
Candidate Details	Name:			
Assessment Outcome	Name of the Assessor			

Assessment Summary (to be filled by the assessor)								
Activity	Method					Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration			✓					
Knowledge Assessment		✓						
Other Requirement				✓				

Observation Checklist

Asse	ssment Task		hile working	g with I	Familie	ren sample drawing in es and Render the Model amera Settings.
	ng the practical asses	sment, candidat		Yes	No	Remarks
1.	Create custom user i		quirement			
2.	Create and apply Fai specifications and re-	•				
3.	Use common tools a model.	nd commands to c	develop a			
4.	Create/import drawin to the given requirem	•	according			
5.	Use appropriate com building layouts.	mands and tools t	o create			
6.	Modify drawings and objects to meet given					
7.	Create 3D prototype model of the drawing according to given measurements.					
8.	Create specification/detail for various parts					
9.	Apply specified detail to objects according to					
10.	Annotate the drawings using set parameters as					
11.	Add scene of 3D model according to					
12.	2. Add lights for illumination to get the requisite scene of 3D model.					
13.	Assign cameras to execute different views of 3D Model.					
14.	14. Render the 3D model according to required image size or resolution & orientation.					
Com	petent		Not Yet Co	ompet	ent	

Knowledge Assessment

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)			
Competency Standard	061100492 Develop 3D Model using Autodesk REVIT			
Candidate Details	Name: Candidate Signature:			
Assessment Outcome	Name of the Assessor: Assessor's code: Signature of the Assessor:			

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

	estions (Candidate confidently answered questions correctly and demonstrated lerstanding of the topics and their application)	Satisfactory	Not Satisfactory
1.	What is meant by Families in Revit?		
2.	What is the use of Pick line in Revit?		
3.	What is the purpose of Levels in Revit??		
4.	What is the function of ZR command in Revit?		

5.	What is the purpose of selector in Revit?							
	Feedback to the Candidate							

Candidate's Signature_____

Assessor's Signature _____

Instruction Sheet for the Candidate

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)
Purpose of Assessment	Summative Assessment - REVIT
Candidate Details Guidance for Candidate	Name Registration Number To meet this standard you are required to complete the following within 04 Hrs. time frame (for practical demonstration & assessment):
	 Create a 3D 'House Plan' according to given sample (Annexure-A) and take the printout of the plan from different views. Knowledge Assessment
Time: 04 Hrs	During a practical assessment, under observation by an assessor, you are required to "Develop drawing given in Annexure-A as per given dimension and specification " demonstrating the following criteria:
Minimum Evidence Required	 Set up template for required specifications. Import/create 2D Drawing/image as per assigned specification. Create 3D object from 2D drawing/image in line with given measurements. Navigate 3D objects as per required job. Modify 3D objects in line with the requirements. Create/assign specified materials and textures to 3D Model. Modify materials and textures according to the object size. Use appropriate tools and commands for applications of materials and textures on 3D objects. Edit materials and textures to get realistic outcome. Install plug-ins to meet specific outcome as per requirement. Add scene of 3D model according to specification Add lights for illumination to get the requisite scene of 3D model. Assign cameras to execute different views of 3D Model. Add shadows and realistic effects to get different rendered views. Add Render Components to make scene more realistic Render the 3D model according to required image size or resolution & orientation.

Self-Assessment Checklist

Candidate Name						
Registration No.						
Qualification	Qualification 0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)					
Purpose of Assessment	Summative Assessment - REVIT					
Assessment Task	Create a 3D 'House Plan' according to given sa and take the printout of the plan from different		exure-A)			
I can						
Performance Crite	eria	Yes	No			
Set up template for	or required specifications.					
2. Import/create 2D	Drawing/image as per assigned specification.					
Create 3D object measurements.	from 2D drawing/image in line with given					
4. Navigate 3D obje	cts as per required job.					
5. Modify 3D objects	s in line with the requirements.					
6. Create/assign spe						
7. Modify materials						
Use appropriate tools and commands for applications of materials and textures on 3D objects.						
9. Edit materials and	d textures to get realistic outcome.					
10. Install plug-ins to meet specific outcome as per requirement.						
11. Add scene of 3D model according to specification						
12. Add lights for illur	mination to get the requisite scene of 3D model.					
13. Assign cameras t	to execute different views of 3D Model.					
14. Add shadows and views.	d realistic effects to get different rendered					
15. Add Render Components to make scene more realistic						
16. Render the 3D meresolution & orien	odel according to required image size or station.					
Candidate's Signature	e Assessor's Signature					
Date:						

ANNUXURE-A



Assessors Judgment Guide

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)				
Purpose of Assessment	Summative Assessment - REVIT				
Candidate Details	Name: Signature:				
Assessment Outcome	Not yet competent Name of the Assessor Assessor's code: Signature:				

Assessment Summary (to be filled by the assessor)								
Activity	Method					Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration			✓					
Knowledge Assessment		✓				_		
Other Requirement								

Observation Checklist

Asse	essment Task	Create a 3D given in Ann		lowing plot dimension as		
During the practical assessment, candidademonstrated the following:				Yes	No	Remarks
1.	Set up template for requi	ired specificati	ons.			
2.	Import/create 2D Drawing specification.	g/image as pe	r assigned			
3.	Create 3D object from 2I with given measurement	S.				
4.	Navigate 3D objects as p	per required jol	b.			
5.	Modify 3D objects in line	with the requi	rements.			
6.	Create/assign specified r 3D Model.					
7.	Modify materials and tex object size.					
8.	Use appropriate tools and commands for applications of materials and textures on 3D objects.					
9.	Edit materials and textures to get realistic outcome.					
10.	Install plug-ins to meet sprequirement.	pecific outcom	e as per			
11.	Add scene of 3D model a specification					
12.	Add lights for illumination scene of 3D model.	n to get the rec	luisite			
13.	Assign cameras to execute different views of 3D Model.					
14.	Add shadows and realistic effects to get different rendered views.					
15.	Add Render Components to make scene more realistic					
16.	Render the 3D model ac image size or resolution	D model according to required resolution & orientation.				
Comp	Not Yet Co	mpete	nt 🔲			

Knowledge Assessment

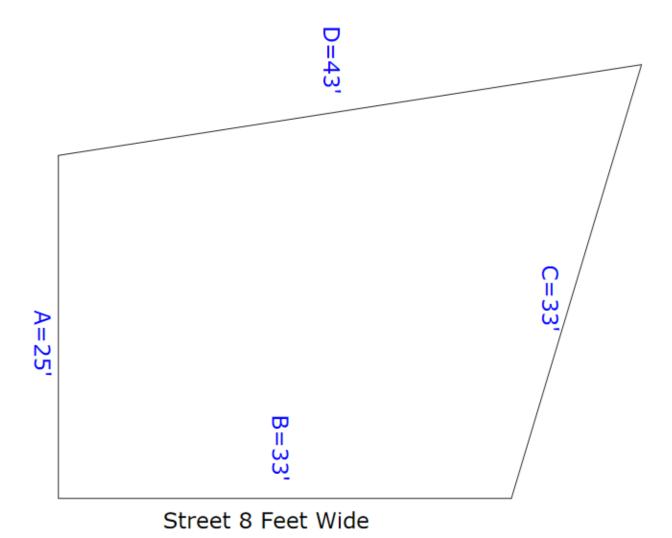
lification			n information	
ose of essment	Summative Assessment - RE	EVIT		
didate	Name:			
ils	Registration Number:	Candidate	Signature:	
esement	COMPETENT	NOT YET COMPE	TENT	
come				
	Assessor's code:	Signature of the As	ssessor:	
			nust be used. Oral	questioning
tanding of the	e topics and their application)			Not Satisfactory
What is fam	nilies in Revit?			
What is the	use Pick line in Revit?			
What is the	purpose of levels in Revit??			
			-	
	didate dils essment essment esome ate's response e used to clarify tions (Candidatanding of the What is fam	Technology (REVIT & SKET) pose of essment Summative Assessment - RE didate ils Registration Number: COMPETENT Name of the Assessor: Assessor's code: ate's response is not required to be identical, but simil a used to clarify candidate understanding of topic and in the content of the	Technology (REVIT & SKETCHUP) Dose of essment Summative Assessment - REVIT Diddate ills Registration Number: Candidate : Registration Number: Candidate : Dome	Technology (REVIT & SKETCHUP) Sessment

4.	What should the output of ZR in Revit?	
	What is the purpose of colortor?	
5.	What is the purpose of selector?	
	Foodbook to the Co.	adidata
	Feedback to the Car	nalaate
Car	ndidate's Signature Assessor'	s Signature

Instruction Sheet for the Candidate

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information
Competency	Technology (REVIT & SKETCHUP)
Standard	061100491 Develop 3D Model using SketchUp
Purpose of Assessment	Formative Assessment
Candidate	Name
Details	Registration Number
Guidance for Candidate	To meet this standard you are required to complete the following within 04 Hrs. time frame (for practical demonstration & assessment): 1. Develop a 3D "House Model" for the following plot dimension (A= 25', B=33', C = 33' and D = 43') as given in Annexure -A (All sides closed except street side) by using Google SketchUp with the following requirements. o Two Bedrooms with attached bath o One kitchen (10 ft x 10 ft) o TV Lounge (As per space), Car Porch (10 ft x 10 ft) o Stairs o Proper Ventilation and Space Utilization 2. Knowledge Assessment
Time: 04 hrs.	During a practical assessment, under observation by an assessor, you are required to "Develop 3D House Model as per given drawing in Annexure-A according to given dimensions and specifications" demonstrating the following criteria:
Minimum Evidence Required	 Set up template for required specifications. Import/create 2D Drawing/image as per assigned specification. Create 3D object from 2D drawing/image in line with given measurements. Navigate 3D objects as per required job. Modify 3D objects in line with the requirements. Create/assign specified materials and textures to 3D Model. Modify materials and textures according to the object size. Use appropriate tools and commands for applications of materials and textures on 3D objects. Edit materials and textures to get realistic outcome. Install plug-ins to meet specific outcome as per requirement. Add scene of 3D model according to specification Add lights for illumination to get the requisite scene of 3D model. Assign cameras to execute different views of 3D Model. Add shadows and realistic effects to get different rendered views. Add Render Components to make scene more realistic Render the 3D model according to required image size or resolution & orientation.

ANNUXURE-A



2

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)
Competency Standard	061100491 Develop 3D Model using SketchUp
Purpose of Assessment	Formative Assessment
Assessment Task	Create a 3D "House Model" for the following plot dimension (A=25', B=33', C=33', D=43') as given in Annexure-A (All sides are closed except street side) by using Google SketchUp with the following requirements: • 2 Bedrooms with Attached bath • One Kitchen (10'x10') • TV Lounge as per space • Stairs and Car Porch (10'x10') • Proper Ventilation and Space utilization

I can.....

Performance Criteria	Yes	No
Set up template for required specifications.		
2. Import/create 2D Drawing/image as per assigned specification.		
Create 3D object from 2D drawing/image in line with given measurements.		
4. Navigate 3D objects as per required job.		
5. Modify 3D objects in line with the requirements.		
6. Create/assign specified materials and textures to 3D Model.		
7. Modify materials and textures according to the object size.		
8. Use appropriate tools and commands for applications of materials and textures on 3D objects.		
Edit materials and textures to get realistic outcome.		
10. Install plug-ins to meet specific outcome as per requirement.		
11. Add scene of 3D model according to specification		
12. Add lights for illumination to get the requisite scene of 3D model.		
13. Assign cameras to execute different views of 3D Model.		

Candidate's Signature	_ Assessor's Signature
Date:	

14. Add shadows and realistic effects to get different rendered views.

15. Add Render Components to make scene more realistic

resolution & orientation.

16. Render the 3D model according to required image size or

Assessors Judgment Guide

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)
Competency Standard	061100491 Develop 3D Model using SketchUp
Purpose of Assessment	Formative Assessment
Candidate Details	Name: Signature:
Assessment Outcome	COMPETENT NOT YET COMPETENT Name of the Assessor Assessor's code: Signature:

Assessment Summary (to be filled by the assessor)							
Activity		ľ	Metho	d		Re	sult
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

Observation Checklist

Assessment Task		B=33', C = 33' an	Create a 3D "House Model" for the following plot dimension (A= 25 ', B=33', C = 33' and D = 43 ') as given in Annexure-A (All sides closed except street side) by using Google SketchUp with the following requirements.			
		. o T\	wo Bedrooms	s with a	ttached	bath
		o 0	ne kitchen (1	0 ft x 10	Oft)	
		o T\	√ Lounge (Às	s per sp	ace)	
		o Ca	ar Porch (10	ft x 10 f	ft)	
			tairs			
			roper Ventilat	tion and	Space	Utilization
	ng the practical assess onstrated the following			Yes	No	Remarks
		<u> </u>				
1.	Set up template for req	•				
2.	Import/create 2D Drawi specification.	ing/image as per as	signed			
3.	Create 3D object from given measurements.	2D drawing/image ir	n line with			
4.	Navigate 3D objects as	per required job.				
5.	Modify 3D objects in lin	e with the requirem	ents.			
6.	Create/assign specified Model.					
7.	Modify materials and textures according to the object size.					
8.	Use appropriate tools a of materials and texture		pplications			
9.	Edit materials and textu	ures to get realistic o	outcome.			
10.	Install plug-ins to meet specific outcome as per requirement.					
11.	Add scene of 3D mode	I according to specit	fication.			
12.	Add lights for illumination to get the requisite scene of 3D model.					
13.	Assign cameras to execute different views of 3D Model.					
14.	Add shadows and realistic effects to get different rendered views.					
15.	Add Render Componer realistic					
16.	Render the 3D model a size or resolution & orie		d image			
Com	petent		Not Yet Co	mpeter	nt 🔲	

Knowledge Assessment

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)					
Competency Standard	061100491 Develop 3D Model using SketchUp					
Purpose of Assessment	Formative Assessment					
Candidate Details	Name: Candidate Signature:					
Assessment Outcome	COMPETENT NOT YET COMPETENT Name of the Assessor: Assessor's code: Signature of the Assessor:					

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

	estions (Candidate confidently answered questions correctly and onstrated understanding of the topics and their application)	Satisfactory	Not Satisfactory
1.	What is shortcut key for Rotate command?		
2.	What is the use of space bar in Sketchup?		
3.	What is the purpose of Orbit command in Sketchup?		

Difference between Zoom Extents and Zoom?		
What is Quick Reference Card?		
What is Quick Horiotics Guid.		
How do you open Material Editor in Sketchup?		
Feedback to the Candidate		
	What is Quick Reference Card?	What is Quick Reference Card? How do you open Material Editor in Sketchup?

Assessor's Signature

Candidate's Signature____

Instruction Sheet for the Candidate

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)
Purpose of Assessment	Summative Assessment - SKETCHUP
Candidate Details Guidance for Candidate	Name Registration Number To meet this standard you are required to complete the following within 4 Hrs. time frame (for practical demonstration & assessment):
	 Develop a 3D "House Plan" for the following plot dimension (A= 25', B=33', C = 33' and D = 43') as given in Annexure -A (All sides closed except street side) by using Google SketchUp with the following requirements. Two Bedrooms with attached bath One kitchen (10 ft x 10 ft) and TV Lounge (As per space) Car Porch (10 ft x 10 ft) and Stairs Proper Ventilation and Space Utilization Knowledge Assessment
Time: 04 Hrs	During a practical assessment, under observation by an assessor, you are required to "Develop drawing given in Annexure-A as per given dimension and specification " demonstrating the following criteria:
Minimum Evidence Required	 Set up template for required specifications. Import/create 2D Drawing/image as per assigned specification. Create 3D object from 2D drawing/image in line with given measurements. Navigate 3D objects as per required job. Modify 3D objects in line with the requirements. Create/assign specified materials and textures to 3D Model. Modify materials and textures according to the object size. Use appropriate tools and commands for applications of materials and textures on 3D objects. Edit materials and textures to get realistic outcome. Install plug-ins to meet specific outcome as per requirement. Add scene of 3D model according to specification Add lights for illumination to get the requisite scene of 3D model. Assign cameras to execute different views of 3D Model. Add shadows and realistic effects to get different rendered views. Add Render Components to make scene more realistic Render the 3D model according to required image size or resolution & orientation.

Self-Assessment Checklist

Candidate Name							
Registration No.							
Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)						
Purpose of Assessment	Summative Assessment - SKETCHUP						
Assessment Task	Create a 3D "House Plan" for the following plot dimension as given in Annexure-A						
I can							
Performance Crite	ria	Yes	No				
Set up template f	for required specifications.						
2. Import/create 2D	Drawing/image as per assigned specification.						
measurements.	from 2D drawing/image in line with given						
4. Navigate 3D obje	ects as per required job.						
5. Modify 3D object							
6. Create/assign sp							
7. Modify materials	and textures according to the object size.						
materials and tex	tools and commands for applications of tures on 3D objects.						
9. Edit materials an	d textures to get realistic outcome.						
10. Install plug-ins to	meet specific outcome as per requirement.						
11. Add scene of 3D	model according to specification.						
model.	mination to get the requisite scene of 3D						
0	to execute different views of 3D Model.						
views.	d realistic effects to get different rendered						
	nponents to make scene more realistic						
16. Render the 3D model according to required image size or resolution & orientation.							
Candidate's Signature	Assessor's Signature						

ANNUXURE-A



Assessors Judgment Guide

Qualification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)				
Purpose of Assessment	Summative Assessment - SKETCHUP				
Candidate Details	Name: Signature:				
Assessment Outcome	Name of the Assessor				

Assessment Summary (to be filled by the assessor)								
Activity	Method					Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration			√					
Knowledge Assessment		√						
Other Requirement								

Observation Checklist

Ass	Create a 3D "House Plan" for the following plot dimension (A= 25', B=33', = 33' and D = 43') as given in Annexure-A (All sides closed except streside) by using Google SketchUp with the following requirements. Two Bedrooms with attached bath One kitchen (10 ft x 10 ft) TV Lounge (As per space) and Car Porch (10 ft x 10 ft) Stairs, Proper Ventilation and Space Utilization					
	ng the practical assesonstrated the following			Yes	No	Remarks
1.	Set up template for	required specification	ns.			
2.	Import/create 2D D specification.	rawing/image as per	assigned			
3.	Create 3D object fr with given measure	om 2D drawing/imag ements.	je in line			
4.	Navigate 3D object	s as per required job).			
5.	Modify 3D objects i	n line with the requir	ements.			
6.	Create/assign spec 3D Model.	cified materials and to	extures to			
7.	Modify materials ar object size.	nd textures according	g to the			
8.	Use appropriate tools and commands for applications of materials and textures on 3D objects.					
9.	Edit materials and toutcome.	textures to get realist	tic			
10.	Install plug-ins to m requirement.	neet specific outcome	e as per			
11.	Add scene of 3D m	odel according to sp	ecification.			
12.	Add lights for illumination to get the requisite scene of 3D model.					
13.	Assign cameras to Model.	execute different vie	ws of 3D			
14.	Add shadows and i rendered views.	realistic effects to ge	t different			
15.	Add Render Comported realistic.	onents to make scen	e more			
16.	size or resolution &	del according to requa	_			
Com	petent		Not Yet Co	mpete	nt 🔲	

Knowledge Assessment

Qua	alification	0611ICT09 National Vocational Certificate Level-3 in Information Technology (REVIT & SKETCHUP)				
	pose of essment	Summative Assessment - SKETCHUP				
	Candidate Details Registration Number: Candidate Signature:					
Assessment Outcome COMPETENT NOT YET COMPETENT Name of the Assessor: Assessor's code: Signature of the Assessor:						
		is not required to be identical, but similar concepts and/or keywords musdidate understanding of topic and its application.	st be used. Oral q	uestioning may		
		date confidently answered questions correctly and demonstrated etopics and their application)	Satisfactory	Not Satisfactory		
1.		ort cut key for rotate command?		Jansiaciony		
		<u> </u>				
2.	What is the	use of space bar in sketchup?				
			-			
3.	What is the	purpose of Orbit command in sketchup?				
			_			

4.	Difference between Zoom Extends and Zoom?	
5.	What do you about Quick Reference Card?	
	Feedback to the Candidate	
0.00	ndidate's Signature Assessor's Signature	

National Vocational and Technical Training Commission (NAVTTC)

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