		1	DATI						
START TIME	DURATION	SECTION	DETAILS						
VUF LONVERT MODE - HIRE SERVICE MODULE									
https://glodon-trainings.teachable.com/courses/2425608/lectures/51116561									
09:45	00:05	Project Settings	Create new project	00:00:00					
			setting options -> autosave prompt insert floors						
09:50	00:05	Floor Settings	set floor height 1st floor:6 m, 2nd floor: 4m set floor elevation	00:00:35					
09:55	00:05	Drawing Management	insert drawing for all floor scale drawing (drag copy scale value in drawing manager to other drawing) all drawing	00:02:24					
			set floor according to drawing in the drawing manager panel select axis element						
10:00	00:05	Axis Grid	make new axis element	00:06:25					
			Input bottom and left axis number and length relocate drawing						
10:05	00:05	Show or Hide Layer	select the cad line entities by layer/color hide the selected drawing	00:11:58					
10:10	00:30	Device Identify (1st floor & 2nd floor)	open sprinkler drawing 1st floor create new element based on drawing legend/notation						
			setting attribute elevation						
			pick device (auto identify method) select floor drawing to be identified in the identify box						
			identify device (explain about identify rule of thumb hierarchy from comlex to simple symbol) draw using points for unindentified device (manual method)						
			create new elements based on drawing legend/notation per system (hydrant and sprinkler)	00:23.05					
			name the pipe using inch as shown in drawing, and input the mm in the attribute editor, adjust attribute elevation and colour as necessary						
			select pipe type in element list, and use Identify Pipe (auto identify pipe) to generate the model. input the dropper diameter						
10:40	00:30	Pipe Works Modelling (1st floor)	use generate end pipe to generate pipe with no label (auto identify method)						
10.40			turn off generate cross in the status bar-explain about what is generate cross (when to turn on/off) use single line for the rest of pipe model (manual method)						
			use Line for the rest of the pipe model (manual method)-explain about: use the form elevation and attribute setting						
			use Pipe to device to connect device and pipe if device doesn't connect to pipe						
			elevation setting)						
			adjust attribute elevation and colour as necessary use Identify Pipe (auto identify pipe)	-					
			use generate end pipe to generate pipe with no label (auto identify method) turn off generate cross in the status bar & explain what is the function of this button						
11:10	00:30	Pipe Works Modelling (2nd floor)	use single line for the rest of pipe model (manual method)						
			use Pipe to device to connect device and pipe if device doesn't connect to pipe						
			generate riser and adjust the start elevation and end elevation of riser (explain per floor and continous floor riser elevation setting)						
			Go to Quantity Ribbon						
	00:20	Quantity Calculation + Discussion	Select floor and hit Calculation Button	00:44:01					
11:40			After calculation done , open View Quantity By Category to see the quantity Check quantity using reverse check quantity-explain and show						
			Adjust Set Classification-try modify the quantity report format Export To Excel						
			Break 1.30 hours						
PDF (Scan & Convert) Mode - Flectrical Module									
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DAY 2							
START TIME	DURATION	SECTION	DETAILS				
			CAD Mode - Plumbing & Sanitary Module	Video Time Stamp			
	1	1	https://glodon-trainings.teachable.com/courses/2425608/lectures/51116563	1			
09:30	00:05	Manage drawing	Scale drawing	00:00:00			
			Split drawing , set corresponding floor according the drawing floor Relocate drawing	-			
09:35 00:05	00:05	Explode Drawing	Try device identify first for sanitary ware, if cannot identify then we explain the explode drawing method	00:08:11			
			Left click selected sanitaryware drawing , right click to confirm				
		Device Identify Sanitaryware (1st floor) Pipeworks Modelling (1st floor) Air Bersih & Air Kotor	create new element based on drawing legend/notation setting attribute elevation	00:07:14			
09:40 00:15	00:15		pick device (auto identify method) select floor drawing to be identified in the identify box				
			identify device				
			explain about entity 3d and how to rotate the entity				
			create new elements based on drawing legend/notation per system and separate horizontal and vertical pipe element (air bersih, air recycle, air kotor) deleted exsisting pipe in element list				
	00:55		adjust pipe name, diameter, attribute elevation and colour as necessary use Line to draw pipe 3d model (manual method) to explain slanted pipe method				
			use Pipe To Device to connect device and pipe if device doesn't connect to pipe				
10-50	00:10	Arrange Diser (1et fleer)	select Riser in the Draw Ribbon	00:27:16			
10.50	00.10	Arrange Riser (15t 1001)	adjust the start elevation and end elevation of riser (explain per noor and continous noor riser elevation setting) place/point the vertical duct into desired position	00.27.16			
			repeat the same for different riser sizes explain that valve only can be identified if the pipe already modelled. Create valve element & adjust attribute if necessary				
11:00	00:20	Pipe Accessory (Valve & Flange) 1st floor & 2nd floor	pick device (auto identify method) select floor drawing to be identified in the identify box	- 00.36.48			
			repeat for all valve/filange location desired				
		Device, Pipeworks, Valve	use Adapt Linear Entity to uniform valve system with pipe system				
11:20	00:20	Modelling (2nd floor) Air bersih dan Air Kotor	still at 1st floor, batch all plumbing and sanitary element and copy entity to other floor to 2nd floor	00:42:46			
		addition	So to Quantity Ribboo				
	00:20	Quantity Calculation + Discussion	Click Calculation symbol	-			
11:40			Select floor and hit Calculation Button After calculation done , open View Quantity By Category to see the quantity	00:44:29			
			Check quantity using reverse check quantity Adjust Set Classification and Qty and Export To Excel if necessary	-			
			Enable and adjust 3d model entity from BIM Model Menu > Entity 3d and Entity Model Break 1.30 hours	1			
			CAD Mode - ACMV Module	Video Time Stamp			
		1	https://glodon-trainings.teachable.com/courses/2425608/lectures/51116564				
13:30	00:05	Manage drawing	input drawing all floor scale cad	-			
			relocate drawing select the cad line entities by layer/color	00:00:00			
13:35	00:05	CAD layer drawing settings	hide the selected layer				
13:40	00:15	Equipment Device Identify (1st floor)	setting attribute elevation	00:03:03			
			Equipment > Pick Device > Pick System text (capacity of equipment) (auto identify equipment method) generate device using Points for unindentified device (manual method)				
13:55	00:15	Air Grille Device Identify (1st floor)	create new element based on drawing legend/notation setting attribute elevation	00:08:47			
			pick device (auto identify method) select floor drawing to be identified in the identify box				
			identify device				
		Air Duct Modelling (1st	Make new element of ducting in the element list (rectangular and round duct base on the ducting detail)				
14:10	00:20	floor)	Explain and adjust attribute editor value especially for elevation, ducting support and insulation Draw the ducting using double line and line methode combined	00:11:51			
14:30	00:10	Air Duct Fitting Identification (1st floor)	select Air Duct Fitting Identification button, and block all ducting entity, right click If any duct fitting are can't be identified, drag manually the ducting to each other to manually create fitting	00:20:27			
14:40	00:10	Pipe To Device (Ducting to	select equipment/device, right click	00:21:25			
14.40	00.10	floor)	repeat for all equipment/device	00.21.25			
		Equipment Davice Identify	create new element based on drawing legend/notation setting attribute elevation	00:21:48			
14:50	00:15	(2nd floor)	Equipment > Pick Device > Pick System text (capacity of equipment) (auto identify equipment method) identify device				
			generate device using Points for unindentified device (manual method)				
15:05	00:20	Duct System Identify (2nd floor)	explain insulation attribute in the Element Editing Window before generate ducting	00:23:22			
			repeat the same step for different ducting sizes use Line method to draw other unindentified ducting model, include Flexible ducting using round duct elemet and Line method drawing				
15:25	00:10	Air Duct Fitting Identification (2nd floor)	select the Air Duct Fitting Identification button, and block all ducting entity, right click repeate the same for different duct sizes	00:26:21			
			Go to Quantity Ribbon	00:27:10			
	00:15	Quantity Calculation + Discussion	Select floor and hit Calculation Button				
15:35			After calculation done , open View Quantity By Category to see the quantity Check quantity using reverse check quantity				
			Adjust Set Classification and Qty and Export To Excel if necessary Enable and adjust 3d model entity from BIM Model Menu > Entity 3d and Entity Model				
			Explain Main Vent Equipment Setting Explain Other Setting for ducting material thickness				
15:50	00:10	Define Region	Open Quantity menu	00:00:00			
			Select Define region Block room area				
			Fill in area name and floor				
			Re-Calculate Open View Quantity By Category and activate Region classification condition from Set Classification and Quantity option				
16:00	00:10	Import TAS File to TME	open BIM Model select import TAS Model	00:00:00			
			open file gshmd				
			after TAS model imported and then relocate model to corresponding axis				
			use entity display setting to manage the model view click Clash Detection Test tools	<u> </u>			
16:10	00:20	Clash Detection and Model Adjustment	select the desired clash option in the selection box (pipe and beam for example) using manage model, only check relevant TAS entity to be shown (for example: check beams only)	00:00:00			
			adjust the entity of pipe to bend below beam using Break and Adjust Elevation tools				
		Merge TME File	use Merge Project in BIM Model	00:00:00			
10:30	00:10		Select section unec project the to be merged select position axis for each of model to be merged				
			visual check overall model that already merged				
16:40	00:30	Evaluation Test TMEC	All offline and online participant join the test which will be announced by zoom chat				