

BIM 5D infrastructure Diploma

Instructor:

Ibrahim samer

Autodesk certified instructor

Autodesk certified professional at civil 3D

BIM Specialist

No.of hours

35 hours

No.of Lectures

25 Lectures

Target group

Str-engineer

Civil-engineer

Students who completed the second stage of specialization

Any engineer interested in the field of BIM

Programme used :

Civil 3D 2017

Infraworks 360 2017

navisworks manage 2019

Autocad 2017

سنتمكن في نهاية هذه الدورة الفريدة من نمذجة شبكات المياه والصرف ومعرفة التداخلات بينهم وكيفية حل هذه التداخلات. وكذلك سنتمكن من إضافة شبكات أخرى من شبكات البنية التحتية مثل الكهرباء أو الغاز ونمذجتها إلى موديل ثلاثي الأبعاد وذلك قبل بدء التنفيذ الفعلي لتلافي تداخل الشبكات مع بعضها البعض في الموقع. وسنتعلم كيفية تحويل الملفات الصادرة من برامج شركة Bentley للمياه والصرف إلى موديل ثلاثي الأبعاد على برنامج الـ Civil 3D. وسنتعلم كذلك كيفية نمذجة الطرق وأماكن قواعد الكباري ودراساتها لتحقيق عدم التداخل بين عناصر المشروع. سنتعلم كيفية الربط بين برامج Bentley وبرامج شركة أوتوديسك مثل Civil3D و Infraworks و Navisworks لتحقيق منظومة البيم المتكاملة. هذا بالإضافة إلى جميع الأعمال المساحية المتخصصة على برنامج الـ Civil 3D وتصميم الطرق طبقاً للكود المصري والكود العالمى.

Course Content

First (Civil 3D)

course objectives

creating an account in Autodesk

introduction

getting started

working with ribbon

working with toolspace

points overview

importing points file

adding points to groups

editing points

exporting points to table

converting autocad points

changing coordinates system

points description

exporting points

surfaces overview

creating surfaces from points

surfaces properties

editing surfaces

boundaries

adding data

labeling surface

points from surfaces

calculating cut and fill

alignment overview

drawing methods

geometry editor

alignment settings

labeling alignment

superelevation

exporting data

importing data

offsetting

alignment usages
profile overview
making a profile (natural)
making a profile (design)
geometry editor
profile view setup
profile view settings
labelling a profile
profile styles
more usages
exporting data
plan production
creating a template
creating a template (a3)
view frames
sheets creation
assembly overview
create assembly
subassembly overview
create subassembly
corridor overview
creating corridor
corridor properties
section editor
surfaces and boundaries
adding ramps
intersections overview
preparing intersections
creating intersections
editing intersections regions
automatic intersections
cul de sac
roundabouts overview
creating roundabouts
sample lines overview

creating sample lines
editing sample lines
compute materials (cut and fill)
compute materials
creating sections
creating multiple sections
creating multiple sections (production)
feature lines overview
creating feature lines
feature lines styles and labels
reating feature lines from objects
creating feature lines from corridor and alignment
editing feature lines
grading overview
grading types
editing grading
grading volume
grading exercise
pipes overview
editing part catalog
creating part list
network rules
creating pipe network from objects
creating pipe network from creation tools
editing network projects
profile
network styles
pipes labels
network interference
importing ship files from sewer cad
pressure pipes overview
preparing part list
draw 3d solid fitting (tee)
importing 3d solid fitting to civil 3d
pressure pipes creating part list

styles and settings
creating pressure network from objects
pressure network creation tools
editing network (plan layout)
creating network profile
profile bands
editing network (profile tools)
labels and tables
data shortcuts overview
creating data shortcuts
managing data shortcuts
parcels overview
creating parcels from object
creating parcels right of ways
parcels creation tools
parcels labels
parcels tables
parcels renumbering
parcels report
survey overview
survey database
equipment and figure prefix
survey linework code sets
survey importing events
traverse adjustment

Secound (infraworks 360)

infraworks in bim
import and export data
download infraworks
start infraworks
home page
model builder
menu bars
Panels

Navigations

Views

model explorer

build,manage, and analyze

data source

select option

creating roads

creating building

land area (coverages)

creating trees

pipelines

roads design

creating roads

road grading

intersection

profile

Quantities

cross sections

bridges design

creating bridge or tunnel

edit bridge

edit tunnel

quantities

exporting to revit

drainage design

overview

water sheds

culverts

creating network

visualization

overview

watermarks and sun

camera path and component

other camera shots

date and time

exporting video and photo
exporting to other software
importing from civil 3d
importing 3d models

Third (Navisworks manage)

navisworks overview
exporting drawings from civil 3d to Navisworks
appending in Navisworks
clash detective
clash report

Forth [Course surprise (Civil 3D Certified Professional Exam pre.course)]

Autodesk Certificates
Autodesk civil 3D exams objects
Tips and tricks

Bestwishes,,,

BIM and engineering Academy Team