

## SCDOT COVID-19 Response – March 17, 2020

### Training Opportunities for Telecommuting Employees

#### Preconstruction Division

#### **No SCDOT Network Connection Required**

#### **1. Project Management**

- a. AASHTO/FHWA Project Management Publications
  - i. <https://design.transportation.org/wp-content/uploads/sites/21/2018/03/Project-Management-Resource-Guide.pdf>

#### **2. Technical Documents to Review**

- a. NCHRP Reports
  - i. Hundreds of publications covering multiple transportation related disciplines that relate directly to SCDOT
  - ii. <http://www.trb.org/NCHRP/NCHRPProjects.aspx>
- b. SCDOT Geotechnical Design Resources
  - i. <https://www.scdot.org/business/geotech.aspx>
- c. SCDOT Hydraulic Design Resources
  - i. <https://www.scdot.org/business/hydraulic-design-studies.aspx>
- d. SCDOT Stormwater Management Resources
  - i. <https://www.scdot.org/business/storm-water.aspx>
- e. SCDOT Roadway Design Resource
  - i. <https://www.scdot.org/business/road-design.aspx>
- f. SCDOT Structural Design Resources
  - i. <https://www.scdot.org/business/structural-design.aspx>
- g. SCDOT Seismic Design Resources
  - i. <https://www.scdot.org/business/structural-design.aspx#seismic>
- h. SCDOT ADA Transition Plan
  - i. [https://www.scdot.org/business/pdf/ada/ada transition plan.pdf](https://www.scdot.org/business/pdf/ada/ada%20transition%20plan.pdf)
- i. SCDOT Standard Drawings
  - i. <https://www.scdot.org/business/standard-drawings.aspx>
- j. SCDOT Standard Specifications
  - i. <https://www.scdot.org/business/standard-specifications.aspx>
- k. SCDOT Supplemental Specifications
  - i. <https://www.scdot.org/business/road-supplemental-specs.aspx>
- l. SCDOT Supplemental Technical Specifications
  - i. <https://www.scdot.org/business/road-technical-specs.aspx>

### **3. Department Memorandums**

- a. Engineering Directives
  - i. [http://info2.scdot.org/ED/Pages/engineering\\_directives.aspx](http://info2.scdot.org/ED/Pages/engineering_directives.aspx)
- b. Preconstruction Design Memorandums
  - i. <https://www.scdot.org/business/preconstruction-designmemos.aspx>
- c. Preconstruction Advisory Memorandums
  - i. <https://www.scdot.org/business/preconstruction-advisorymemos.aspx>

### **4. Encroachment Permits**

- a. Training Videos, Checklists, and Guidelines
  - i. <https://www.scdot.org/business/permits.aspx>
- b. ARMS Manual
  - i. [https://www.scdot.org/business/pdf/accessMgt/trafficEngineering/ARMS\\_2008.pdf](https://www.scdot.org/business/pdf/accessMgt/trafficEngineering/ARMS_2008.pdf)

### **5. Engineering Reproduction Services**

- a. OCE Plotwave 500 <https://www.youtube.com/watch?v=P2eDcUpzPtQ>
- b. OCE Direct Print Software <https://www.youtube.com/watch?v=76nhfCVParU>
- c. Oce Color Scanner Training <https://www.youtube.com/watch?v=45jToLt-XmA>
- d. Adobe Training Videos <https://helpx.adobe.com/learning.html>
- e. Xerox Training Videos  
<https://www.xerox.com/en-us/about/online-training>  
<https://www.youtube.com/watch?v=xqKgQVvWyLg>  
[https://www.youtube.com/watch?v=9J2OS0xn\\_bE](https://www.youtube.com/watch?v=9J2OS0xn_bE)  
<https://www.xerox.com/en-us/digital-printing/digital-presses/xerox-versant-180>

### **6. Various Online Training Opportunities**

- NHI (National Highway Institute) - <https://www.nhi.fhwa.dot.gov/home.aspx>
- o 'Feature Training' Links
  - o 'Search' Links for Available (Free) Web-based Training (WBT) Courses
    - Available Subject Series: Bridge, Asphalt, Concrete, Geotechnical, Hydrology, Safety, Construction, Maintenance
  - o AASHTO TC3 YouTube Channel
    - Training Videos  
<https://www.youtube.com/channel/UCoQbanqOOj02yWsxWKWzjBQ/videos>
- TRB (Transportation Research Board) - <https://www.nationalacademies.org/trb/transportation-research-board>
- o "Straight To Recordings" – Free On-line Videos  
<http://www.trb.org/ElectronicSessions/STR.aspx>

- Available Subjects: DBE, Transportation Visualization, Road Tunnel Operations, Project Delivery, etc.
- Over 50 Transportation-related Videos.

ATSSA (American Traffic Safety Services Association) – <https://atssa.com/>

- Available Training: Flaggers Safety, Sign Retro reflectivity, Work Zone Safety

Portland State University – Transportation Research and Education Center -

<https://trec.pdx.edu/events/webinars>

- Available Webinars: Infrastructure Growth, Connected Vehicle System Design, Assessing Impacts of New Mobility, Bike Riding – Lane Protection

## 7. Engineering Software

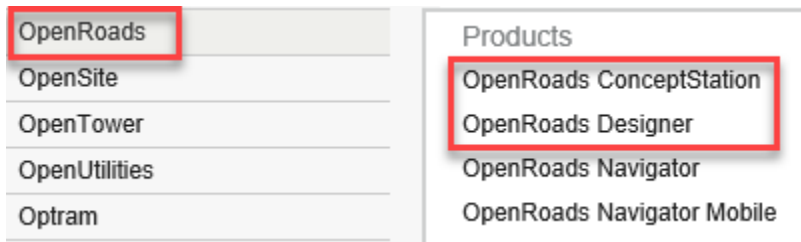
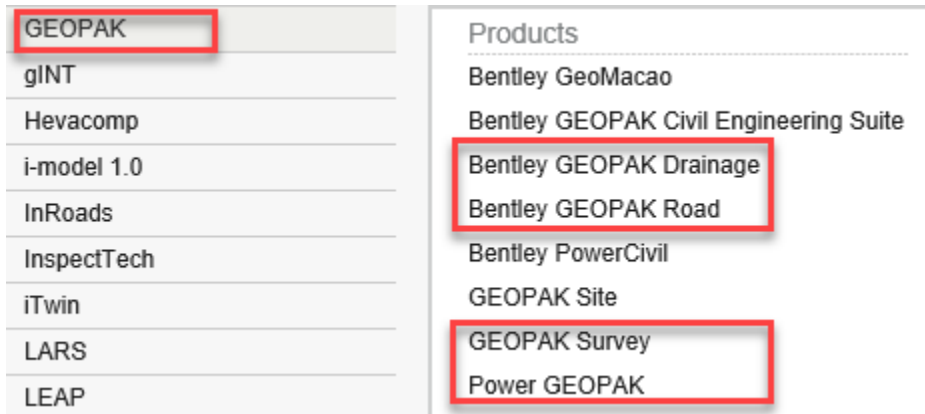
### Roadway

#### 1. Bentley Learnserv <https://www.bentley.com/en/learn>

Click on the “Go to Learn Server” button and login – login with your email address and nts password.

Once it loads, click **Find Training**, on the left select:

- Geopak > Bentley Geopak Road
- OpenRoads > OpenRoads Designer



#### 2. FDOT Cadd Pages & Youtube videos

[https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw\\_A](https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw_A)

<https://www.fdot.gov/cadd/main/fdotcaddtraining.shtm>

<https://www.fdot.gov/cadd/downloads/webinars/posted.shtm>

#### 3. Bentley Youtube ORD series

[https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw\\_A](https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw_A)

#### 4. Bluebeam

[https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw\\_A](https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw_A)

<https://support.bluebeam.com/revu-windows-2018/#studio>

#### 5. Autoturn

<https://www.youtube.com/watch?v=OGzRwn6MXrE>

## Drainage

### 1. Bentley Learnservers <https://www.bentley.com/en/learn>

Click on the “Go to Learn Server” button and login – login with your email address and nts password.

Once it loads, click **Find Training**, on the left select:

The screenshot displays two panels from the Bentley LearnServer interface. The left panel shows a list of product categories with 'GEOPAK' and 'OpenFlows' highlighted in red boxes. The right panel shows a list of specific products under the 'Products' heading, with 'Bentley GEOPAK Drainage', 'OpenFlows CivilStorm', and 'OpenFlows StormCAD' highlighted in red boxes.

Product Category	Product
GEOPAK	Bentley GeoMacao
gINT	Bentley GEOPAK Civil Engineering Suite
Hevacomp	Bentley GEOPAK Drainage
i-model 1.0	Bentley GEOPAK Road
InRoads	Bentley PowerCivil
InspectTech	GEOPAK Site
iTwin	GEOPAK Survey
LARS	Power GEOPAK
LEAP	
OpenFlows	Bentley Darwin Calibrator
OpenPlant	Bentley Darwin Designer
OpenRail	Bentley HEC-Pack
OpenRoads	Bentley SCADAConnect
OpenSite	OpenFlows CivilStorm
OpenTower	OpenFlows FLOOD
OpenUtilities	OpenFlows FLOOD Server
Optram	OpenFlows FlowMaster
PlantWise	OpenFlows HAMMER
PLAXIS	OpenFlows PondPack
Pointools	OpenFlows SewerCAD
ProjectWise	OpenFlows SewerGEMS
ProStructures	OpenFlows StormCAD
RAM	OpenFlows WaterCAD
RM	OpenFlows WaterGEMS
SACS	

### 2. Bluebeam

[https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw\\_A](https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw_A)  
<https://support.bluebeam.com/revu-windows-2018/#studio>

### 3. FHWA Everyday Counts

<https://www.fhwa.dot.gov/innovation/everydaycounts/>  
<https://www.fhwa.dot.gov/innovation/resources/videos/>

4. **Hec Ras**  
<https://www.hec.usace.army.mil/training/webinars.aspx>
5. **WMS**  
<https://www.aquaveo.com/software/wms-learning>
6. **SMS**  
<https://www.aquaveo.com/software/sms-learning>
7. **Carlson Precision 3D**  
[https://www.youtube.com/results?search\\_query=carlson+precision+3d](https://www.youtube.com/results?search_query=carlson+precision+3d)

## Structures

1. **Bentley Learnservers** <https://www.bentley.com/en/learn>

Click on the “Go to Learn Server” button and login – login with your email address and nts password.

Once it loads, click **Find Training**, on the left select:

The screenshot displays three sections of the Bentley Learn Server interface, each with a category on the left and a list of products on the right. Red boxes highlight the selected category and its corresponding products.

- LEAP** (highlighted) products:
  - LEAP Bridge Concrete (highlighted)
  - LEAP Bridge Enterprise Design Code USA
  - LEAP Bridge Precast
  - LEAP Bridge Steel (highlighted)
  - LEAP CONSPLICE
- OpenBridge** (highlighted) products:
  - OpenBridge Designer (highlighted)
  - OpenBridge Modeler (highlighted)
- ProStructures** (highlighted) products:
  - Bentley Rebar
  - ProConcrete (highlighted)
  - ProSteel (highlighted)
  - ProSteel 3D Engineering
  - ProSteel 3D Modeler
  - ProSteel for AutoCAD
  - ProStructures (highlighted)
  - ProStructures for AutoCAD
  - Structural Modeling Components

A **RESET FILTER** button is visible at the bottom of the ProStructures section.

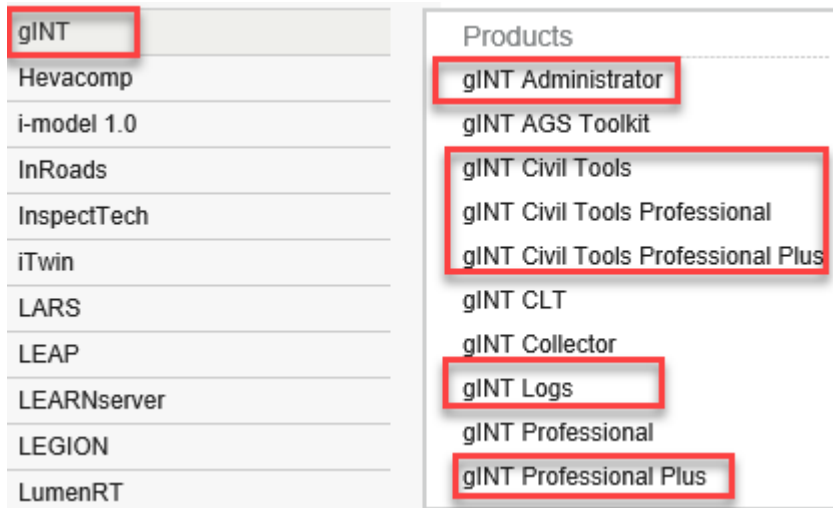
2. **Bluebeam**  
[https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw\\_A](https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6IIQw_A)  
<https://support.bluebeam.com/revu-windows-2018/#studio>
3. **FHWA Everyday Counts**  
<https://www.fhwa.dot.gov/innovation/everydaycounts/>  
<https://www.fhwa.dot.gov/innovation/resources/videos/>
4. **CSI Bridge**  
<https://www.csiamerica.com/products/csibrige/watch-and-learn>
5. **MathCad**  
[https://www.youtube.com/results?search\\_query=mathcad](https://www.youtube.com/results?search_query=mathcad)

## Geotechnical

1. **Bentley Learnservers** <https://www.bentley.com/en/learn>

Click on the “Go to Learn Server” button and login – login with your email address and nts password.

Once it loads, click **Find Training**, on the left select:



2. **Bluebeam**  
[https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6lIQw\\_A](https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6lIQw_A)  
<https://support.bluebeam.com/revu-windows-2018/#studio>
3. **FHWA Everyday Counts**  
<https://www.fhwa.dot.gov/innovation/everydaycounts/>  
<https://www.fhwa.dot.gov/innovation/resources/videos/>
4. **Ensoft Product Manuals (Apile, Lpile, PyWall, Shaft)**  
<https://www.ensoftinc.com/>
5. **CPT – Cliq CPeT-IT and Section Maker manuals**  
<https://geologismiki.gr/support/>  
<https://www.youtube.com/user/GreggCPTWebinars>
6. **Rocscience (RSPile, Slide, Settle)**  
[https://www.youtube.com/user/rocscience/videos?disable\\_polymer=1](https://www.youtube.com/user/rocscience/videos?disable_polymer=1)  
<https://www.rocscience.com/about/news-events/rspile-webinar2>



## Surveys

### 1. Bentley Learnservers <https://www.bentley.com/en/learn>

Click on the “Go to Learn Server” button and login – login with your email address and nts password.

Once it loads, click **Find Training**, on the left select:

The image displays two screenshots of the Bentley LearnServer interface. The first screenshot shows a list of products on the left sidebar with 'GEOPAK' selected. The right sidebar shows a list of products under the heading 'Products', with 'GEOPAK Survey' and 'Power GEOPAK' highlighted. The second screenshot shows a list of products on the left sidebar with 'OpenRoads' selected. The right sidebar shows a list of products under the heading 'Products', with 'OpenRoads ConceptStation' and 'OpenRoads Designer' highlighted.

### 2. Carlson Survey

<http://www.carlsonsw.com/support/>  
<https://www.youtube.com/user/CarlsonSoftware>

### 3. TopoDOT

<http://www.certainty3d.com/resources/videos/>

### 4. Bluebeam

[https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6lIQw\\_A](https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6lIQw_A)  
<https://support.bluebeam.com/revu-windows-2018/#studio>

### 5. FHWA Everyday Counts

<https://www.fhwa.dot.gov/innovation/everydaycounts/>  
<https://www.fhwa.dot.gov/innovation/resources/videos/>