

# HEC-RAS

<https://www.hec.usace.army.mil/software/hec-ras/>

## Links with HEC-RAS Info

<https://www.kleinschmidtgroup.com/the-ras-solution>

<https://www.youtube.com/c/TheRASSolution/videos>

## Download and Install HEC-RAS: Tips and tricks for getting started

[https://www.youtube.com/watch?v=BUjF\\_MGcxYQ](https://www.youtube.com/watch?v=BUjF_MGcxYQ)

## HEC-RAS Basics Part 1 of 7: Creating a 1D geometry file in RAS Mapper

<https://www.youtube.com/watch?v=xzg0V7RTdok&t=1s>

## HEC-RAS Basics Part 2 of 7: 2D Flow Areas and Refinement Regions

<https://www.youtube.com/watch?v=7o4DkcBQtno>

## HEC-RAS Basics Part 3 of 7: Internal and external boundary condition setup

<https://www.youtube.com/watch?v=pLNJZ2drgRc>

## HEC-RAS Basics Part 4 of 7: Inflow, outflow, and rain-on-grid boundary conditions

<https://www.youtube.com/watch?v=c2rL8zvLvuE>

## HEC-RAS Basics Part 5 of 7: Computational Options and Variable Time Steps

<https://www.youtube.com/watch?v=2hkpPdvicmU>

## HEC-RAS Basics Part 6 of 7: Culverts and Hydraulic Structures

<https://www.youtube.com/watch?v=au1Hyqt7drA>

## HEC-RAS Basics Part 7 of 7: Export Options and Rating Curves

<https://www.youtube.com/watch?v=ClahlI2sWqE>

## Terrain Modification in HEC-RAS Part 1: Bathymetry

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

## Terrain Modification in HEC-RAS Part 2: No-data Values

<https://www.youtube.com/watch?v=OzZQKBbaC2A>

**Terrain Modification in HEC-RAS Part 3: Dams, Levees, Channels, Buildings, Basins, and more!**

<https://www.youtube.com/watch?v=x4jWljMx8zQ>

**Terrain Modification in HEC-RAS Part 4: Bridge Decks with Glitterbeard**

<https://www.youtube.com/watch?v=MWYKW-6D0FU>