

Visual Work Instruction (VWI) Puzzle Exercise



**Newport News
Shipbuilding**
A Division of HII

iDS Integrated Digital Shipbuilding (iDS) is a company-wide initiative that replaces legacy processes and tools with an integrated suite of digitally-enabled products.

One legacy process being replaced is the 2D paper work instructions that the Trades use to build Navy ships. Imagine being a craftsman and walking to a drawing vault all the way across the shipyard to grab a large, heavy 20-300 page paper drawing so you can get started on your work for the day. You take the drawing to your job site, only to realize you also need a second drawing to complete your work. Back to the vault you go! There are three (3) images on the reverse side of this flyer that make up the 2D drawing sheets for this puzzle. Using the 3D printed parts and only those provided images, try and put your puzzle together.



IntegratedDigital
SHIPBUILDING



VWI Now imagine instead of carting around heavy paper drawings, you can carry a tablet or laptop and do the same job. That's exactly what was developed to replace the legacy paper process – Visual Work Instructions (VWI). VWIs give the Trades a more intuitive and useful work instruction by combining step-by-step digital directions with interactive views of the 3D product model.

QR Let's try to put the same puzzle together using a VWI. Please scan the QR code on the right with your mobile phone's camera, and click the link to view the digital work instruction. Much easier to put the puzzle together, right?

NNS has issued more than 3,000 digital devices to the Trades and created over 24,000 VWIs to date. The cost and time savings generated for NNS vastly improves the way our shipbuilders manufacture ships, and VWIs are just one piece of the digital puzzle!



