

*North Country Education Services envisions a three-fold solution to this challenge:*

- professional development around identifying standards, creating activities to demonstrate those standards, and developing and implementing a training model so that all teachers can understand and assess technology activities
- portfolio design, creation and assessment
- network and technical capacity



For more information on how NCES can help your school or District develop and implement the ICT standards and electronic portfolios, please contact:

Matt Treamer (matt@ncedservices.org)

or

Paula Churchill (paula@ncedservices.org)

Or call

466-5437 1-800-2685437

Is your staff ready to implement these changes without help?

The State has been conducting informational sessions on the policy change and surveying the attendees at these sessions. Right now, about 79% of the 150 respondents said there is NO policy at the present for electronic portfolios and 92% voiced a need for assistance in making curriculum revisions, assessment rubrics and creating activities that address these ICT standards.

NCES has trainers who can address these issues and individualize the training to your needs and current status:

- Networking and storage solutions. We can help your tech people provide the necessary disk space and connectivity
- A portfolio solution through html or pdf files
- Professional development targeted to designing activities with these ICT standards, crating rubrics for assessment and portfolio creation



300 Gorham Hill Rd

Gorham NH 03581

**ICT Literacy  
Standards  
and the  
Portfolio  
Requirements  
for  
8<sup>th</sup> and 12<sup>th</sup> Grades**

*A Full Solution Provider*

*NCES will review your existing technology plans, curriculum standards, board policies and hardware to provide a customized solution for your district. NCES has developed templates for both the portfolio and sample rubrics to assess technology integration according to the new minimum standards.*

## New State Requirements for Information and Computer Technology (ICT) Challenges and Opportunities for Administration and Staff

With the new requirement for electronic student portfolios that address ICT Literacy standards, schools are faced with a challenge and an opportunity to match technology integration, assessment and professional development to curriculum. The process, in the overview, is fairly simple: students save work that relates to ICT standards throughout elementary school and, at the end of 8<sup>th</sup> grade, produce a portfolio. This portfolio is assessed against a rubric the school has approved. Students who produce a portfolio that passes the school standard then are allowed to take a higher level technology class in lieu of the computer literacy course to satisfy their graduation requirement.

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## North Country Education Services Portfolio and Professional Development Offerings

### Professional Development: Technology Activities, Portfolio creation, Understanding the ICT Standards

NCES can design ongoing professional development so that your school or district can create or polish grade level appropriate targeted technology activities that relate to the ICT standards. Rubrics for these activities provide the basis for assessment and NCES can provide you with concrete samples that may be amended to fit your curriculum. Once these targeted activities are developed, we can provide training to your entire staff or implement a train the trainer model so that at every grade level there are clear expectations with regards to technology use and activities and rubrics for the teacher to use embedded in the grade level curriculum. Once your school or district decides on a format for the portfolio, we can provide your teachers or tech staff with ongoing support when students assemble the final portfolio.

### Portfolio Design, Assessment and Accountability

NCES has several solutions for using existing or affordable software to create the actual student portfolio. Schools need to keep in mind that the format should be one that can be universally read by PCs or MACs and that is easily transportable, since it should follow the student through the 12<sup>th</sup> grade. NCES can also help your school or district design a template using the format that meets your needs and an accounting method to track students submissions to their portfolio.

### Network Storage, Login, Secure Folders and Backup

We can offer services to assess and enhance your network so that students have server storage, individualized logins and security. There are several cost effective solutions for school with or without robust networks or adequate storage space.

## ICT Standards as a Theme for Professional Development

Through these ICT literacy themes, your staff can focus on directed Professional Development focused on these standards and integrating them into the Grades 3-8 or 9-12 curriculum. This emphasis will address

- curriculum improvement
- identifying appropriate grade level technology skills for your district,
- developing meaningful activities for specific grades or subjects
- Designing a 'train the trainer' or other model so that your staff has ongoing support
- Portfolio design, creation and assessment
- Improving technology skills and how to use technology as a teaching tool for all your staff