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Copyright Information:

(whatever this might be)

I. Introduction

Purpose of this Toolkit and the Readiness Review Process



The Common Core State Standards Initiative promises to bring sweeping changes to how students learn and teachers teach. The curriculum-based aspects of the Common Core relate to providing students with opportunities to meet worldclass standards for developing thinking, learning, and creativity skills. For teachers, the work to implement and create the learning environments necessary for meeting the standards brings to the fore issues of moving curriculum, instruction, and

assessment fully into the 21st century. Perhaps nowhere is this movement more obvious than in the fact that the new Common Core assessments scheduled to replace existing state-standardized tests starting in SY2014 will fully utilize computer-based testing (CBT). CBT will allow states, districts, teachers, parents, and of course students to quickly and efficiently access assessment data and to thereby quickly fine-tune learning in a way that is not possible with traditional paper and pencil tests.

But just as the Common Core challenges teachers to develop and deploy new instructional practices to meet new standards, the CBT component of the Common Core challenges districts to deploy a sufficient level of technology infrastructure to support the new assessments. While this infrastructure is really little different than what most districts have been aiming for in terms of student access to instructional technology for day-to-day use, the intense network bandwidth and nearly one-to-one student to device ratios required for Common Core testing put districts to the test of whether or not they have truly developed a technology infrastructure that is ready for 21st century learning. Simply put, is your district ready to deploy the new Common Core assessments?

In New York, the new computer-based Common Core assessments are commonly referred to as PARCC assessments. This is due to the fact that NY is participating in the PARCC consortium of states for the development of Common Core assessments. PARCC has published a set of guidelines detailing the technology requirements related to its assessments. This toolkit and the related Readiness Review process is intended to help districts understand the requirements and then to conduct the necessary tests to determine technology readiness. The toolkit provides resources for districts to aggregate and describe what they need to reach readiness. This description is useful in working with the funding agents and vendors that will ultimately help districts acquire the technology infrastructure necessary for PARCC's computer based testing.

Readiness Review Toolkit Components

The Lower Hudson Regional Information Center (LHRIC) in partnership with Sun Associates has assembled a number of tools intended to support the CBT Readiness Review process.

<u>Readiness Checklist</u> – Districts should complete this checklist that prepares the district for engaging in the LHRIC CBT Readiness process.

<u>Readiness Responsibility Worksheet</u> – This simple worksheet helps districts assign responsibility for various aspects of readiness preparation and to create a timeline for the readiness review process.

<u>PARCC Technology Guidelines</u> – PARCC has prepared a set of guidelines that describe the hardware, software, and network bandwidth necessary to administer the assessments to the level of the student desktop. These guidelines form the basic infrastructure readiness indicators for this toolkit.

<u>PARCC Capacity Planning Tool</u> – PARCC has created an interactive tool that takes district data on guideline-compliant devices, bandwidth, and testing conditions (days, numbers of students, etc.) and then compares this data to the PARCC Guidelines. The result of this comparison is a quantitative report on device and bandwidth adequacy.

<u>CBT Other Factors Guide</u> – LHRIC has created a set of guidelines for describing and addressing the issues related to staffing, scheduling, etc. necessary for administering the assessments.

LHRIC District Readiness Gap Analysis Report – This LHRIC-created report template aggregates and summarizes the data that flows from the Capacity Planning Tool and Human Factors Guide. Completing this template-driven report provides districts with a way to organize and present their data findings (gaps) in a "proposal" that goes to Boards/district administrators and explains what a district needs to do to reach full readiness.

It is intended that the tools in this publication be used within the context of technical assistance provided by LHRIC. How this technical assistance fits in with the various tools and templates is described in the graphic, below.

How the CBT Readiness Review Process Works

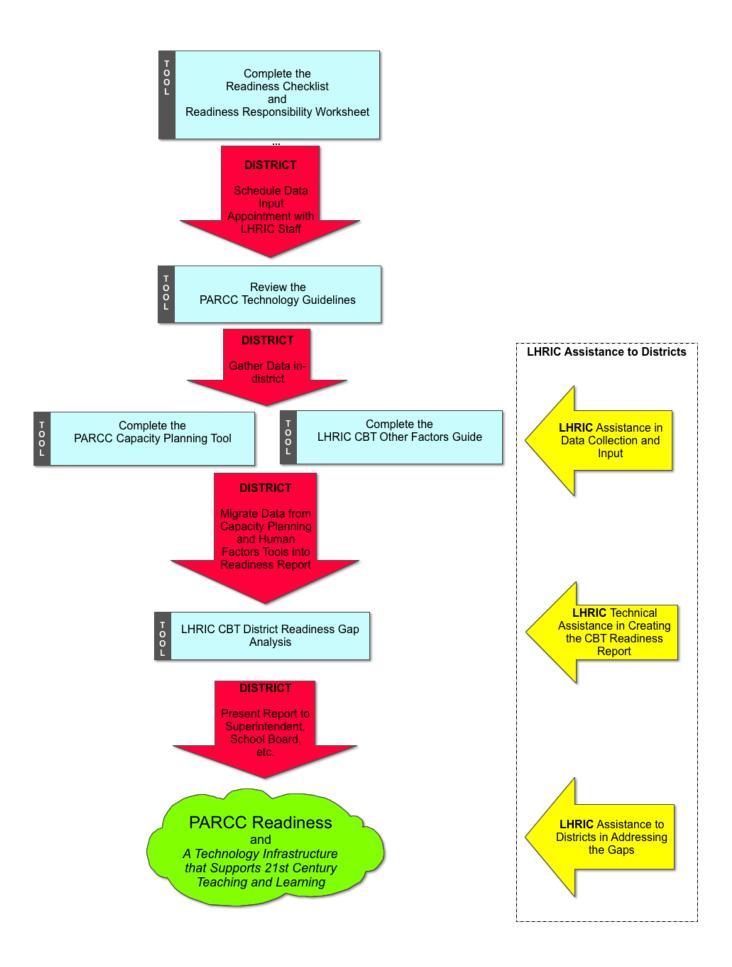
The CBT Readiness Review Process and Toolkit is a combination of guidelines, interactive tools, and LHRIC technical assistance that provides districts with a guided approach to discovering their degree of readiness and then developing solutions for reaching full readiness to implement the PARCC assessments.



Technical assistance is a key component of this process. Depending on individual district preference, LHRIC offers the following technical assistance opportunities:

- Assistance to a district in gathering infrastructure, testing, and human factors data and then inputting
 that data into the various components of the toolkit. This assistance is scheduled through
 communication with your district's LHRIC Regional Coordinator. Typically, districts that have
 gathered their internal data will need less than one day of LHRIC technical assistance in completing
 the tools.
- Assistance to a district in completing the <u>Readiness Gap Analysis Report</u>. Once a district has completed the Capacity Planning and Other Factors tools, the results from these tools can be migrated into a report. The toolkit has provided a template for this report. LHRIC offers assistance to districts in completing the report template and in customizing the report for presentation to district funding authorities (in the event that the district needs to purchase additional resources to reach a state of readiness). This technical assistance is scheduled through communication with your district's LHRIC Regional Coordinator.
- Assistance to a district in investigating and purchasing additional resources. This assistance is entirely optional, but it may be helpful to have assistance in exploring how RIC or BOCES services (including various CO-SERs) can help your district address gaps in readiness.

The following graphic illustrates the process for engaging with the LHRIC CBT Readiness Process.



What is Necessary to Engage in the Readiness Review Process?

Even though LHRIC is committed to providing all possible assistance to its member districts in using this toolkit to investigate, describe, and address PARCC readiness, it remains necessary for districts to provide the following inputs into the Readiness Review process.

Assumptions and Preparation

The district needs to designate a staff contact to work with the tools and LHRIC technical assistance providers. This district staff must be someone who has the ability to:

- Acquire district technical data e.g., device counts/inventory, information on device capability/configuration, network bandwidth information, software/network application use within the district, and technical staffing levels. Typically, a district technology coordinator has this information or can gather it.
- Represent the district's intentions around test administration e.g., someone on staff who has examined student testing requirements and who can speak to how these requirements are being articulated within the district. Issues such as grades and subjects to be tested and days allocated to testing each school year fall into this category of information.
- Speak to the district's budget and budgeting process This would be someone who understands the district's budget process as well as the current and anticipated budgets. This is important in terms of accurately framing budget requests and/or fitting requests for new and additional resources (both technical and staffing) into the existing budget.

In order to help districts prepare to efficiently engage with the CBT Readiness Review, we have provided a <u>Readiness Process Checklist</u>. Districts should complete this checklist prior to their first LHRIC technical assistance meeting.

Designation of these staff, as well as a timeline for their input and work will be documented in the Readiness Responsibility Worksheet.

The Relationship Between CBT/PARCC Readiness and Instructional Technology Readiness

PARCC is just one component of a broader movement to implement the Common Core standards. Further, the Common Core is part of a still-broader movement to transform the teaching and learning environment in schools. While getting ready for PARCC is a significant undertaking and requires specific allocation of resources, it is important to remember that what all of this is about is something much more far-reaching than just having sufficient technical infrastructure for computer-based testing.



The technical resources that enable PARCC testing have much more value than that which they will be put towards for perhaps 20 days of your school year. That value is found in the district's ability to leverage its improved technical infrastructure for truly transformative instructional practices and what could be a truly 21st century learning environment...and environment that is usable 365 days of the year.

We feel that it is important that districts both articulate <u>and plan for</u> how improved technical infrastructure supports an enhanced teaching and learning environment. In fact, some of this explanation could be critical for building the community support necessary to reach PARCC readiness. Therefore, the process of planning for PARCC readiness should parallel (if not exist as a fully integrated component of) a process for investigating and planning for instructional technology readiness.

Investigating and planning for instructional

technology readiness is a process that includes most of the same steps required for investigating and planning for PARCC readiness, only with different tools focused on different people and different data. Instructional technology readiness focuses on collecting data on curriculum, instructional practice, and professional development. The goal of an instructional technology readiness investigation is to determine the extent to which teachers and students are participating in the sorts of technology-infused learning practices that support the acquisition of Common Core (21st century) skills. Once current levels of readiness are determined, the district can proceed to plan on how it will work to close gaps between current practice and desired practice/outcomes. The result of this work is usually a strategic technology plan, of which an infrastructure plan (the product of the PARCC readiness work) is just a component.

LHRIC urges districts to make the connections between PARCC readiness and the broader issue of instructional technology readiness in its rationale for acquiring the technology resources necessary for PARCC readiness. The District Readiness Gap Analysis Report tool helps districts roughly frame these connections and provides the links to what should ideally be a comprehensive instructional technology plan.

Now...

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Complete the Readiness Checklist and Readiness Responsibility Worksheet

DISTRICT

Schedule Data Input Appointment with LHRIC Staff

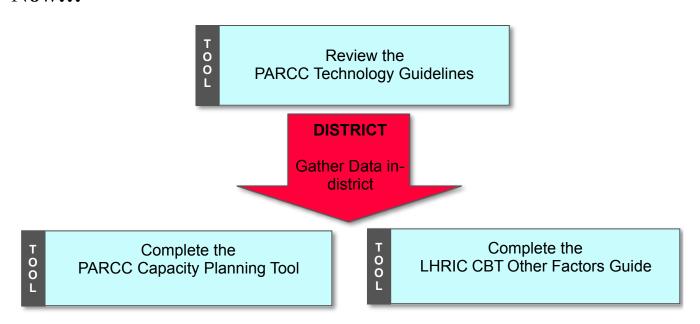
Readiness Process Checklist

CLICE	K HERE to download an interactive version of this form	
Distric	pt:	
Prima	ry District Contact	
	Name:	
	Email/Contact:	
	e complete this form – and send it to LHRIC – prior to your distri ntment with LHRIC.	ict's technical assistance
	Complete the Readiness Responsibility Worksheet	
	Schedule a Technical Assistance Appointment with LHRIC	
	Inform Those Individuals Identified on the Readiness Responsibility Worksheet of the Date of the Technical Assistance Appointment, and Secure their Participation/Representation	
	Work With District Staff to Acquire/Gather Data	See the Readiness Responsibility Worksheet to determine data categories required as well as who should be responsible for gathering the data.
	District Staff Meet to Discuss Readiness and to Identify Key Issues and Concerns in Advance of the LHRIC Meeting	
	are your basic concerns related to CBT readiness? These as to be sure to have addressed through the readiness process.	are concerns that you

Responsibility Readiness Worksheet

<u>LICK HERE</u> to download an int		
Strict:		
Primary District Contact		
Name:		
Email/Contact:		
For each topic below, identif described information.	y a person who is respons	sible for collecting and reporting th
Information Category	Person	Email/Contact
Computing devices (workstations) and device configuration/capacity		
Existing applications and device use		
WAN/LAN bandwidth and other networking issues		
Teacher/student technical support		
District and school testing schedule issues		
District-wide assessment coordinator		
eadlines Related to PARCO	Readiness	
This Year's Testing Win	dow (dates):	
Timeframe for District B	udget Development Work	(dates):
Desired Date For Relea	se of Readiness Report:	

Now...



II. PARCC Technology Guidelines, Capacity Planning Tool and CBT Other Factors Guide

The guidelines and resources associated with school district readiness for Common Core assessment are constantly evolving. Therefore districts are urged to consult with LHRIC, NYSED, and other up-to-the-minute sources of information related to the Common Core and its assessment. The various guidelines and tools that follow are the most current available at the time of publication.

PARCC Guidelines

PARCC has published guidelines for the <u>minimum</u> requirements for computer-based assessment related to the PARCC Common Core tests. These guidelines are attached in the Appendix of this toolkit and are also available online at http://www.parcconline.org/technology.

The guidelines specify:

- Which devices students can use to participate in the PARCC online assessments
- The amount of bandwidth required to administer the online assessments <u>concurrent with</u> existing district bandwidth needs
- Which WWW browsers are compatible with the PARCC assessment site

Please note that PARCC will continue to update the device and bandwidth guidelines as they are refined through field tests and the test developers. Furthermore, it is possible that state departments of education (e.g., NYSED) will issue guidance on local interpretation of the guidelines. Districts should consult the PARCC Technology website and normal sources of information on state guidelines.

LHRIC staff will also work with districts to keep abreast of any changes in the current guidelines.



PARCC Capacity Planning Tool

The PARCC Capacity Planning tool is an interactive spreadsheet that allows districts to calculate the degree to which their devices and bandwidth are capable of meeting the PARCC technology guidelines. PARCC has made the following resources available to districts:

- Capacity Planning Tool Spreadsheet
- Capacity Planning Tool Print Version
- Capacity Planning Tool Example
- Assessment Administration Capacity Planning Tool Users' Guide

In order to complete the capacity planning tool, you will need to have the following information in-hand.

- Information on what grades your district intends to test in the upcoming school year (using the new PARCC CBI assessments)
- Number of days that your district intends to use to administer tests (the PARCC tool assumes a maximum of 20 days)
- Number of computer devices that meet or exceed the PARCC guidelines (see above)
- Information on raw available network bandwidth available at the school level
- Information on <u>existing</u> usage of bandwidth for various instructional and administrative uses (concurrent with testing on testing days)

Refer to the <u>Responsibility Readiness worksheet</u> for the names of those individuals who have this information.



LHRIC CBT Other Factors Guide

The Other Factors Guide is a simple checklist and information recording form that helps districts track several other factors (beyond devices and bandwidth) involved in preparing for and administering CBT PARCC assessments.

For many of these "other" CBT-related issues, there are no fixed guidelines or requirements. Rather, there are simply categories of issues that districts should explore and seek resolution for prior to beginning testing. In some cases, state departments of education will develop and issue guidelines after the 2014 pilot testing period. Therefore, districts should stay tuned to state department announcements and those from the various regional technical support providers charged with assisting districts in the testing process.

Computer-Based Testing Other Factors Guide

In preparation for Computer-Based Testing for Common Core (PARCC) assessments, there are a number of issues that districts should consider. Anticipating and properly preparing for these various issues will help ensure a smooth testing experience for all students.

For many of these CBT-related issues, there are no fixed guidelines or requirements. Rather, there are simply categories of issues that districts should explore and seek resolution for prior to beginning testing. In some cases, state departments of education will develop and issue guidelines after the 2014 pilot testing period. Therefore, districts should stay tuned to state department announcements and those from the various regional technical support providers charged with assisting districts in the testing process.

For each of the following categories, please consider the issue and note your district's current plan for how to manage this issue within your testing environment.

Planning/Design

•	Who in the district is practically responsible for coordinating <u>all</u> testing activities and ensuring that the district has a viable plan for administering tests?	
•	When will the district have a final plan in place?	
•	How will the plan be communicated to building administrators, teachers, and the paren community?	ıt
•	Is there a date on which the district will have a "dry run" of its testing plan? Specifically will the district have a stress test of its network and test-related devices prior to the actual test administration so that testing readiness can be ensured for the testing period?	y,

Special Needs/English Language Learner Student Accommodations

Please see the state's guidelines for student accommodations in CBT Common Core assessments. A <u>general policy document related to these accommodations</u> is available from PARCC. Please see this document for an overview of the various considerations related to making accommodations to the computer-based tests. These guidelines will be updated regularly prior to the release of the final tests, and state guidance will always be the final policy on these matters.

cal S _l	ace and Requirem	ents		
Vhere	will testing occur in eacl	n building?		
0 0	each testing space, what Electrical power (sufficient Network access (routers Furniture (chairs, tables, NOTE that additional sp Etudents requiring physical	ent for all devices and s, wireless, physical s desks, spaces for e ace/furniture require	cabling) each student and his/ ements may be neces	her de

Staffing

CBT requires immediate/on-site technical support as well as proctors for student test takers. Proctors need to be familiar with the testing software (i.e., the tests themselves) as well as the actual procedures for students to progress through the tests. Technicians need to be immediately available in the event of a problem with network infrastructure, devices, or other technical snafus.

•	One technician should be assigned to each test-taking area and should be on-site during the test-taking period. Who will these technicians be? NOTE that it may be necessary to bring in extra technicians to support testing.	
•	There should be at least two proctors in each test-taking area during the testing per Who will these proctors be?	iod.
•	Proctors and technicians need to be <u>fully familiarized</u> with the testing procedures pr test administration. <u>How</u> will this happen, <u>who</u> will conduct the training, and <u>when</u> w training occur?	

Contingency Planning for Interruptions

Each district should create a contingency plan for testing-related emergencies that might result in an interruption to testing. The state department of education is likely to issue guidelines for district contingency planning prior to the testing period. Nevertheless, districts should give thought to how they will handle the following "unanticipated" occurrences:

- Weather delays during testing periods
- Power failures in the testing location
- Network failures
- Other physical interruptions to testing (e.g., fire drills, weather emergencies, lock-downs, other physical personal or building-wide emergencies)

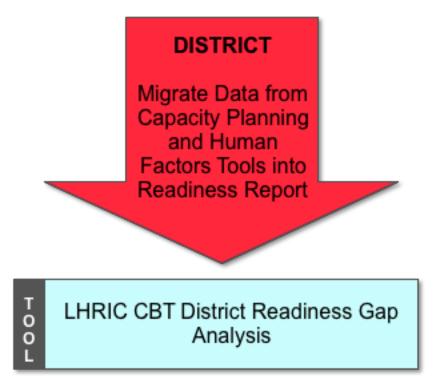
 What are the district's contingency plans to cover interruptions during the testing period?
Other Considerations
Use this space to discuss any other considerations or concerns related to your district's plan for administering the computer-based Common Core assessments.

Assistance in Gathering Data and Completing the Forms

LHRIC will provide assistance to districts in aggregating data related to readiness, completing the PARCC Capacity Planning Tool and the Other Factors Guide, and assembling the Gap Analysis Report. This assistance is provided at no cost for those districts that utilize LHRIC/BOCES network services (or whatever the proper term is for this service). Other districts can receive this assistance at a nominal cost. Please contact your Regional Coordinator to determine your district's eligibility and to learn about group events occurring in the Fall of 2013 where assistance will be provided. (check the accuracy of that statement)

Assistance to districts typically will consist of a day on-site in your district where LHRIC staff will work face-to-face with your primary district contact (see the <u>Readiness Responsibility Worksheet</u>) and other district staff brought together by the district to engage in this readiness assessment. There will be ample time during this day to discuss issues of readiness, research solutions, and develop strategies. The end product of this day will be the creation of the <u>Gap Analysis Report</u> and therefore a roadmap for district readiness

Now...



III. The District Readiness Gap Analysis Report

LHRIC Technical
Assistance in Creating
the CBT Readiness
Report

The District Readiness Gap Analysis Report summarizes your district's CBT readiness status and provides information on precisely what your district needs to do to achieve readiness. As a practical matter, this report is the basis for any budget requests that the district needs to make in order to purchase resources required for readiness.

The report also provides a concise discussion of the various other factors and considerations necessary for readiness. In sum, the Readiness Gap Analysis Report is descriptive snapshot of what your district will do in order to be ready to administer computer-based Common Core assessments.

LHRIC staff can provide assistance to your district in completing the Readiness Gap Analysis Report.

District: ______ Primary District Contact:

PARCC Readiness Gap Analysis Report

Abstract/Summary

As of **[date]**, **[district name]** has completed a thorough review of its readiness to administer the computer-based testing components of the **[school year]** Common Core assessments. This review has found that in order to administer the assessments to **[grades, buildings, student cohorts]**, we need to address the following deficiencies in our technology infrastructure:

Devices:

- We need **[number]** additional computer devices in order to meet the minimum recommendation of having 1 device per 2 test-taking students during testing period.
- We need to upgrade [number] devices with [browser, operating system, etc.]
- We need [number] keyboards; [number] mice/pointing devices; [number] audio devices such as headphones, earphones, or speakers.

Network Bandwidth:

- We need to upgrade the network bandwidth coming into our district to **[bandwidth]**.
- We need to upgrade intra-building and LAN bandwidth. This will be accomplished by [state method]

Network Configuration:

- In order to enable proxy-caching, a way of reducing bandwidth requirements and improving network access for test-taking students, we need to [state method]
- We need to upgrade our network infrastructure by [state method, eg., adding switches, expanding wireless, etc.]

Technical Support:

 During the testing period, so as to ensure integrity of data and access to the testing software, we need to allocate [number] technicians to be on-call within the district and ready to respond immediately to any device or network technical issues. This will impact our district's technical support by [state reason/rational/solution. e.g., hiring temporary staff, suspending "normal" technical support for the district, etc.].

Space:

• During the testing period, testing will occur in the following locations. [name locations] It is anticipated that these locations will be secured, and therefore unavailable for other uses, during the testing period.

B 4 :		
Proctoring:		
 It is estimated that we will require [numl suggested that we address these needs the outlay of personnel expenses [in the 	by [state method]. This [
Test Administration for Special Needs Students	<u>s</u> :	
 In order to accommodate the test taking make the following accommodations: [st cost of [cost]. 		
BUDGET REQUEST SUMMARY		
Category	Expense	
Devices (computer hardware)		
Software (browsers, upgrades to OS, etc.)		
Peripheral Devices		
Networking Hardware		
ISP/Bandwidth Services		
Labor		
Technicians		
Contract Technical Services		
Additional Proctors/Test Administration Staff		
Total		
Discussion		
Discussion		
Description of the Boodiness Assessment Proce	200	
Description of the Readiness Assessment Proce	755	

Bandwidth			
Sarrawiatir			
Network Configuration			
Network Configuration Technical Support			

Space				
Proctoring				
Special Needs	Consideration	ıs		
Special Needs	Consideration	es .		
Special Needs	Consideration	os		
Special Needs	Consideration	os .		
Special Needs	Consideration	PS .		
		PS		
		PS		
		PS .		
		PS .		
		PS .		
Other Conside		PS .		

Now...

DISTRICT

Present Report to Superintendent, School Board, etc.

PARCC Readiness

A Technology Infrastructure that Supports 21st Century Teaching and Learning

IV. Implementing Your Readiness Plan

LHRIC Assistance to Districts in Addressing the Gaps

Sharing the Report and the Plan

One of the main aspects of readiness is one which cannot adequately be captured on a form or checklist. Ultimately, readiness happens when everyone involved in your district's testing activity is "on the same page" with regard to your plan for testing and testing administration. Therefore, it is essential that once you have developed a readiness and testing plan that you share this plan widely within the district community.



The first step in sharing the plan is to share the outcomes of this report. Certainly it is important to share the report with your Superintendent, business manager, and ultimately the school board. In most cases, sharing is essential in that the Board will need to incorporate various aspects of the plan/report into its budget process. Most districts will find that readiness involves purchasing devices, services, and

allocating personnel time. These are financial decisions that need to be made and incorporated into the budget.

Beyond budgeting, it is equally important that districts share the broad details of how testing will occur within the district. In particular, attention should be paid in describing the differences – and similarities – between the new computer-based tests and traditional standardized testing. Part of this explanation may well be a discussion of the Common Core itself, as many parents are likely to be unclear as to the objectives of the Common Core (with its increased emphasis on thinking and learning skills). Therefore, weaving information on CBT in with other planned communications about the Common Core and new standards may be quite beneficial to parent understanding and involvement.

Connections to Your District Technology Plan

PARCC CBT readiness should be just one component of your district's overall ability to meet student and teacher instructional technology needs. Much of what has been discussed as "CBT readiness" is the technology infrastructure component of a comprehensive district technology plan. Of course, the other components of a district technology plan include:

- Teacher professional development in the various pedagogies that are supported by technology
- Development of the various curricular connections between student technology use and the development of thinking and learning skills
- Acquisition of additional classroom technology resources that support curriculum standards and learning outcomes

All of these components go well beyond simply having technology infrastructure in-place to support computer-based testing, and yet these are the uses to which your teachers will put technology during the bulk of the year where no testing occurs. This is an important argument for districts to make when seeking community support for purchasing technology infrastructure.

In order to provide support and validity to this "bigger picture" argument, most districts will need to engage in a thorough examination of just how technology (such as that acquired for CBT readiness as well as additional technologies) will support the full range of teaching and learning activities in the district. This examination process should include:

- A thorough assessment of the current status of technology integration in classrooms across the district (i.e., an instructional technology program review/audit)
- Development of an organizing, comprehensive, well-communicated vision and strategic goals for technology's role in teaching and learning and the meeting of rigorous curriculum standards
- Development of concrete action plans for implementing the district's technology goals

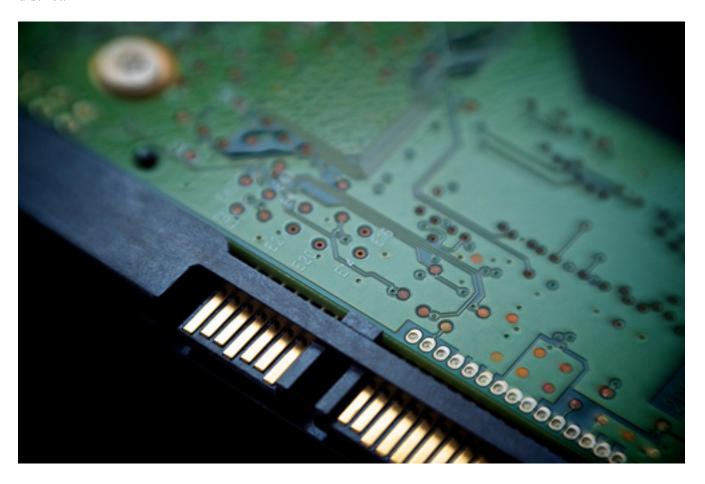
LHRIC provides assistance to districts in developing and implementing all of these components for an effective strategic instructional technology plan.

Assistance in Implementation

LHRIC offers assistance to districts around many aspects of CBT readiness. These include:

- Internet service
- Network management
- Purchasing of workstations and peripherals
- Planning, evaluation and advocacy for instructional technology implementation

Please contact your <u>LHRIC Regional Coordinator</u> for more information on LHRIC services for your district.



V. Attachments/Appendices

Glossary of Terms

Bandwidth

CBT

Common Core

ELL

Existing Applications

IEP

ISP

LAN

Network

PARCC

Peripheral Devices

Proctor

Readiness

Technical Support

Testing Window

WAN

Workstation Device

Useful Links

(e.g., conversion tools, state sites, etc.)

PARCC NYSED LHRIC Sun Associates