Exploring IT Technical Assessments

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Jeff Lareau and Nicole Maseberg 02/20/15

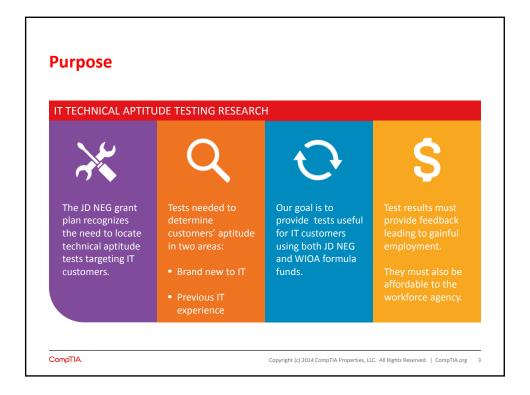
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Agenda

- Information on researched technical aptitude tests
 - ProveIT
 - MeasureUP
 - Smarterer
- Perceived Pros and Cons of each tool
- Contact information to inquire about additional demonstrations and implementation for your program



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Current Testing Issues

- Sometimes clients are misdirected into/away from IT
- Current aptitude tests don't ask industry specific questions, they are too general
- Many locations have zero testing for technical aptitude
- Using only previous skills to determine pathway for training/employment, which limits the thought of career change
- Not enough funding in budget to afford additional tests
- Clients must take multiple tests to obtain GLE requirements and specific technical aptitude results

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Technical Aptitude Assessment (TAP) Test (Created by MeasureUP) CompTIA.

MeasureUP-TAP Technical Aptitude Assessment

- Designed to determine customer's
 Test takes 20 minutes, 5 minutes per ability to learn new content and technologies quickly
- Geared towards customers who are brand new to IT field
 - Used by Dept. of Defense in conjunction with the Wounded Warrior Project
- Tests four areas:
 - Verbal Reasoning
 - Numerical Reasoning
 - Symbolic Reasoning
 - Visual Speed and Accuracy

- section.
- Psychometrically validated
- Those with results in the 40th percentile or lower shows they would struggle to learn IT technologies
- Test is set to be geared toward technical aptitude and cannot be tailored

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Instructions Page



General Instructions

Introduction

This group of tests measures general reasoning and perceptual abilities that are important for success in IT jobs.

- The assessment consists of 4 separately timed tests.
- · Each test has its own set of instructions.

The tests have short time limits, so you should work as quickly and accurately as possible.

General Test Instructions

- All tests use a multiple-choice format.
- . To answer a question, click on the button below one of the answer choices.
- To change your answer to a question, simply click on a different answer. Your first answer will change automatically.
- . To remove an answer, right-click on the marked answer.

During the test, you can keep track of the number of questions answered and time remaining. This information will appear just below each set of items.

Several questions are presented on the screen at the same time. To go to the next set of questions, click on the NEXT link.

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Numerical Reasoning

Look at the sample problems below. Each series of numbers is followed by a question mark where the next number of the series should be. There are patterns in the series. Your task is to look in the answer columns to the right of the question mark and find a number which will continue the series. Indicate your answer by clicking on the answer button below the proper number.

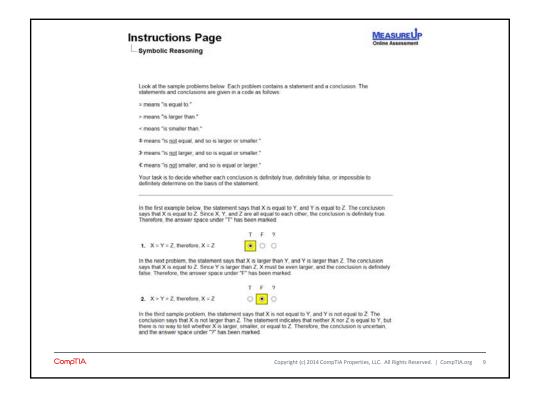
In the first sample problem (1,4,7,10,13,16,19,2) each number is 3 more than the preceding number. Therefore, the next number should be 3 more than 19, 19 plus 3 is 22. Therefore, the button under 22 in the answer columns has been marked.

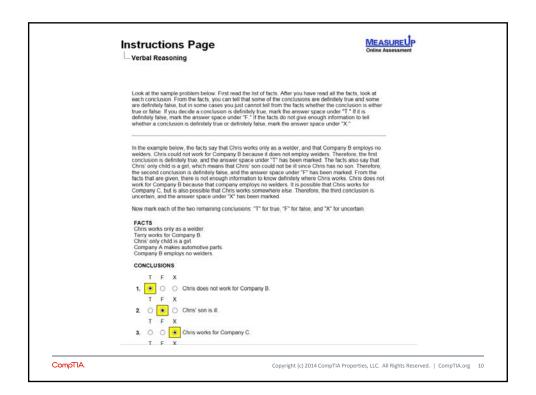
Now look at the four remaining sample problems. Find the pattern in each series, decide what number should come next, and mark it in the answer columns. Work these problems now.

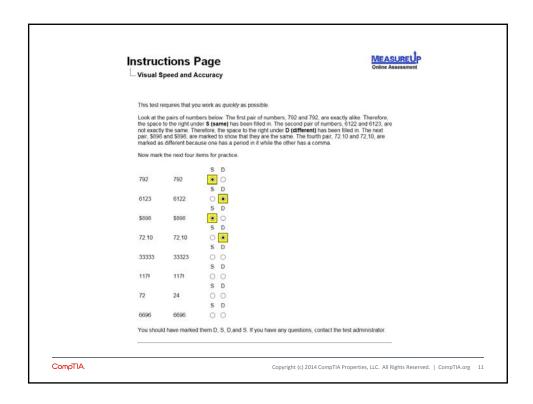
1.	1	4	7	10	13	16	19	2	20 ○	21 ○	22 •	23 ○	0
2.	20	18	16	14	12	10	8	2	7	6	5	4	3
3.	20	20	19	19	18	18	17	2	17	16	15	14	13
4.	4	6	5	7	6	8	7	?	6	7	8	9	10

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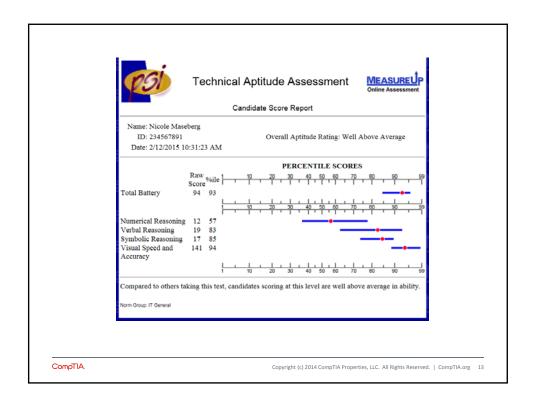
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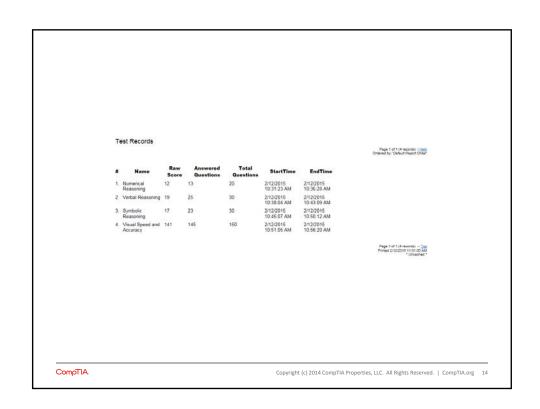












Pros

- Geared to measure general technical aptitude for an IT position
- Psychometrically validated and used by the Department of Defense
- Test is completed quickly and can be done online or in workforce center using access code
- Targeted specifically for entry level customers
- Indicates if a customer would struggle to learn technology
- **Best for targeting brand new to IT customers**

Cons

- Uses Internet Explorer only to run program
- Not geared toward a yearly membership fee
 - Must purchase uses in groups of 12 or more
 - Test vouchers expire after 1 year
- Only one test, cannot incorporate math and reading GLE or customize to needs of workforce agency
- Won't lead toward specific training suggestions, but will determine if they will be able to grasp concepts being taught
- ** Some of these gaps we hope will be filled by the tools provided by Burning Glass **

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MeasureUP Contact Information



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VP of Sales and Operations

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skype: mupsales

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Sample Prove It! Test Titles

- C++ Programming
- Cisco Networking
- Cisco Router
- Crystal Reports 8.0
- DB2 Developer
- J2EE
- Java SE 7
- Lan Concepts
- Linux Administrator

- Network Administrator
- Network Security
- Oracle 9i DBA
- SAP Database
- Technical Support IT/Network
- Technical Support Processes
- VMWare Workstation 7
- Wan Architecture
- Wireless Networking
- Microsoft Windows 8 Technical Skills
 And Many More (1,300+)



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Pros

- Already used by large companies, recruiters, and some workforce centers to test candidates aptitude
- Customizable in a variety of ways:
 - Can design registration page to reflect your agency
 - Can add/remove questions from specific tests
 - Can add a time limit to questions to reduce cheating
 - Can combine tests to target a position
- · Large quantity of IT tests available
 - Also incorporates additional industry specific tests incl: manufacturing, accounting and healthcare
 - Content is always being updated
- · Extremely user friendly

- Customer service is easy to work with to develop tests to meet agency's needs
- Tests can be taken at home utilizing a customer login or in the workforce center
- Test can be reviewed question by question
 - Can be retaken to show improvement
- Results can be used to target level where training is needed: basic, intermediate or advanced level of knowledge
 - Results received can help develop IEP goals based on skills gaps
- Pay structure is simple. Yearly subscription for the portfolio of tests
- Can possibly add Math and Reading GLE testing if accepted by IWDS

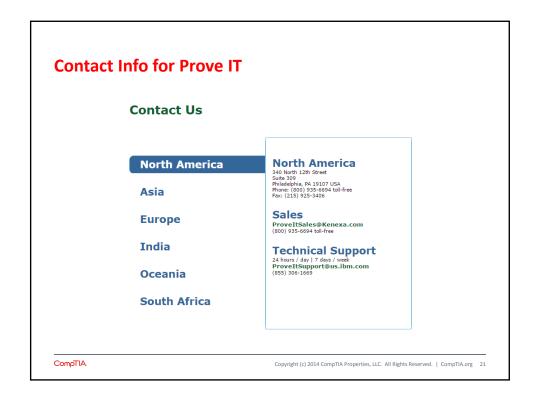
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Cons

- Tests current knowledge, may not be suitable for customers with no previous experience
- Because it is cloud based, Java needs to continually be updated to support their platform
- Not a free platform. Yearly fee required.
 - Additional fees to add behavioral tests or to create new tests
- No current GLE tests for reading or math, but may be able to be added for a fee
 - Could possibly be added to IWDS for GLE results once math and reading tests are vetted.

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- Tests specific skills for IT (ex: Java, Networking, Microsoft Office)
- Test questions are developed through crowdsourcing, and validated through various algorithms

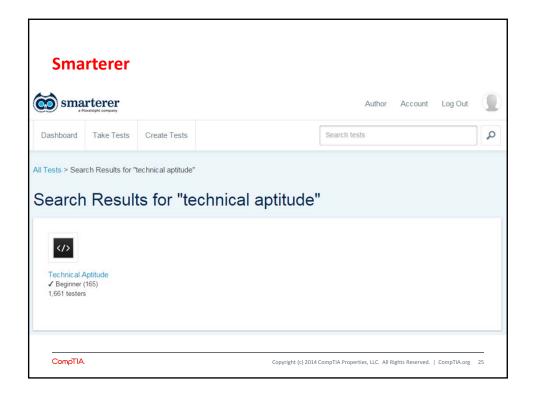


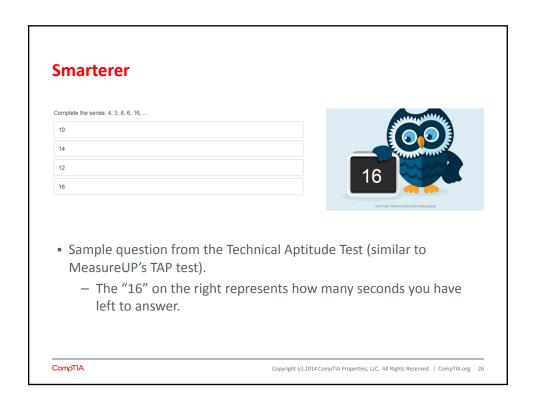
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• List of tests taken:



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Pros

- Free to use for anyone
- Infinitely customizable
 - Can be paired together with other Smarterer tests to meet needs of a specific position
 - Very willing to work with entities to meet their needs
- Tests are very short, avg. 5 minutes each, and can be as short as 2 minutes.
- Designed to determine technical aptitude for specific position or skill
 - This may lead a customer towards specific training or employment to improve these levels
- Very slick, modern interface
 - API can be customized to your website

Cons

- There's no detailed breakdown of your results.
 - Only given a score out of 800
 - Can't review question by question
- Due to crowdsourcing, there is a very small chance that the test taker will be given a dud question
- No current GLE equivalent for IWDS screens.
- Not primarily geared toward entry level candidates at this point in time, but Smarterer team has some plans to address this
- Not psychometrically validated

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Contact



info@smarterer.com

(857)268-5263

Call to schedule a demo

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Recap

Opinions from our perspective:

- If your clientele is primarily entry level, Measure UP's TAP test would be the most beneficial
- If your clientele has previous experience in their desired field,
 Prove It would be the most beneficial
- If your clientele has previous experience in their desired field, but your center lacks the funding for an additional test,
 Smarterer would be the most beneficial

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Recap

- Please use the contact information in the slides above to explore adding one or all of these tools to your assessment procedures
 - Jeff and Nicole can be your connection to these providers as you explore them for further use
- Additional aptitude tests will be researched and presented in a future webinar

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Questions??



We want to hear from vou!

Where are you struggling when working with your IT focused clients?

What information would you find beneficial to help make the IT JD NEG grant a success?

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Upcoming Webinars:

- Here is a link to our previous webinar discussing CompTIA's IT Certification Roadmap and Job Locator Tools
- IT Resume and Transferrable Skills: 3/19/15 (est.)
- Participant Outreach and Marketing Tools: 3/31/15 (est.)
- Illinois workNet IT NEG Website (TBA)



Please visit the NEG page on Illinois workNet for an up-to-date calendar of events and registration information:

www.illinoisworknet.com/jobdrivenNEG

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