

### **Objectives**

### In order to familiarize newer ICPs with the certification exam process, we will

- Describe the Practice Analysis (PA) process for determining job specific tasks performed by the majority of ICPs.
- Identify how the Content Outline is derived from the PA to create an exam to measure basic knowledge needed for persons practicing infection control.
- Review the references useful for exam preparation in order to maximize learning with a few texts.

### Other "opportunities"

- Introduction to the testing process
- Identify what type of test taker you are
- Assessment of your readiness to test

### In the beginning...

### The Practice Analysis (PA)

- involves systematic collection of information that describes behaviors and activities performed by occupants of the job in question.
- Determines the core functions that should be assessed in a certification examination

### Practice Analysis process

- Survey tool was developed by a panel of experienced ICPs
- Surveys were emailed to APIC and CHICA members
- Conducted every 5 years to reflect changes in practice
- Based on North American practice standards (US & Canada)

# **PA Rating Scale**

In your role as an ICP, considering both **importance** and **frequency**, how significant is the task to safe and effective performance?

- **0** = Not necessary for the job
- 1 = Minimally significant
- **2** = Somewhat significant
- **3** = Quite significant
- **4** = Extremely significant

### In the 2005-2006 Survey

- 9590 electronic invitations were sent
- 1304 bounce-backs as undeliverable addresses
- 1809 responses received
- 21.8% response rate
- Decision rules were then applied to responses to include or eliminate content areas.

# Tasks had to be...

- Necessary for the job
- Significant to moderately experienced ICPs, regardless of work setting, bed capacity, hours per week worked,
- Significance was **not** related to certification status

# And then the PA results were

• Statistically analyzed to determine core elements that are essential for an ICP practicing with 2 years experience



• Used to develop the content outline for the certification exam



### The Content Outline

**Major Content Categories** 

- I. Identification of infectious disease processes-27
- questions Ш. Surveillance and epidemiologic investigation-32
- questions Ш. Infection prevention and control- 36 questions
- IV. Program management and communication -17 questions
- ٧. **Education -12 questions**
- VI. Infection control aspects of employee health-11 questions

### References

References have been categorized as primary and secondary sources but nearly all questions are based on chapters in the primary references. Secondary references may be useful to help clarify more detailed issues in specific practice settings or content areas such as microbiology.

Primary References: • APIC Text of Infection Control and Epidemiology 2nd Edition, including Electronic Edition CD-ROM; January 2005

 Heymann, David L. Control of Communicable Diseases Manual. Washington, D.C.: American Public Health Association. 18th Ed., 2004

### The Questions

- Each exam consists of 150 questions
- 15 are "pre-test" questionsnew questions that are being "tested" to see how they perform
- The candidate is, therefore, only marked on 135 questions

Test Items are Divided into 3 Skill Levels
Recall: basic recall of information that has been memorized (approx 25%)
Application: simple application of facts / interpretation of data (50-60%)
Analysis: evaluation of data, problem solving (remaining %)
All questions are scored equally, no matter their level.

### **Insider tips**

- While the exam is based on North American practice, it is being taken all over the world!!
- Don't bother to study U.S. specific standards. We've eliminated references to national organizations, such as OSHA and JCAHO.
- Questions should be applicable to the practice of infection prevention and control throughout the world.



You passed

### More Tips

- Use the Content Outline
- Review the APIC Text and other pertinent references
- Prepare well in advance of the exam
- Read each question thoroughly- they are not intended to be tricky
- Stay calm 🕲

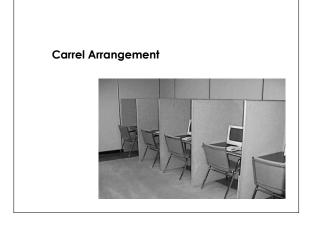
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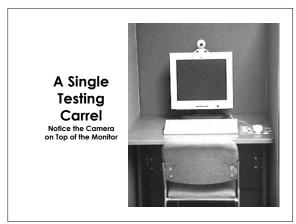


### On the Day of the Test

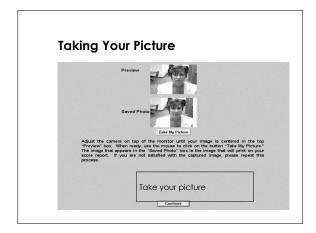
- Official, current, government issued photo ID is required for admission- there will be a color photograph of the candidate on each score report
- No materials are allowed in the test center, except a calculator
- Audio and video surveillance continuously during examination
- All forms and options are scrambled by the computers



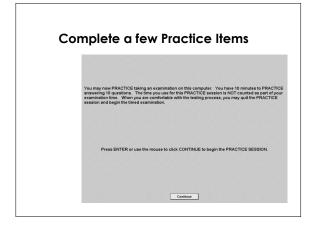


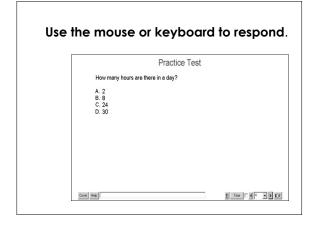


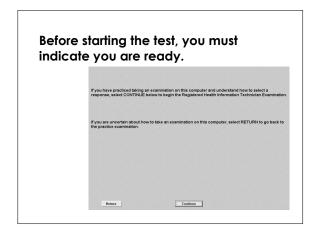

Advent
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cheduled to take the following examination:
Health Information Technician Examination
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his is correct, click CONTINUE below.
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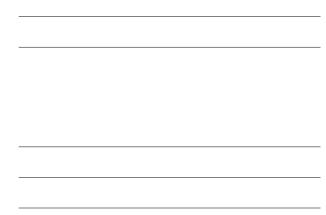


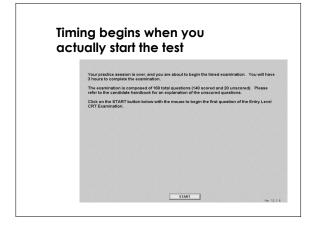










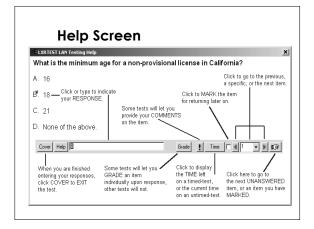


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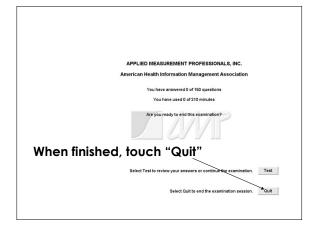
Use the keyboard or click the mouse to choose a response	_
Which of the following is usually caused by a poor floor plan in a house? A. curable physical deterioration B. incurable physical deterioration C. incurable external obsciescence	_
D. incurable functional obsolescence	_
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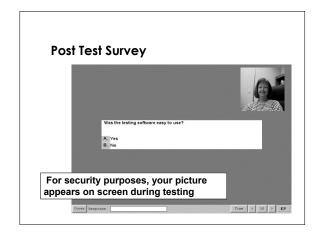
Which of the following is usually caused by a poor floor plan in a house? A. curable physical deterioration B. incurable physical deterioration C. incurable external obsolescence Best to use the <i>"hand" key to</i> proceed to the next <u>unanswered</u> item
V





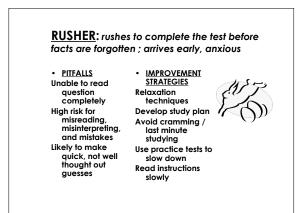






# What Type of Test Taker are you?

- know yourself
- identify the type of test taker you are
- utilize the improvement strategies suggested



### **TURTLE:** moves slowly thru each question; repeated re-reading

STRATEGIES

Practice tests.

Place watch in

front of you

Mark answer sheet for halfway point

• PITFALLS Last to finish, may not complete exam Quickly completes last questions, increasing chance of error



### **PERSONALIZER:** mature person who has insight from personal experiences

not experiences

 PITFALLS Risk of relying on experiences, possible false understandings Personal beliefs may not be the norm

 IMPROVEMENT STRATEGIES Focus on standards that support nursing practice Focus on generalities,



SQUISHER: views exams as threats, preoccupied with grades, accomplishments

items

• PITFALLS **Procrastinates in** studying Ineffective studying because it is done at the last minute

Increased anxiety



### PHILOSOPHER: academically successful person, well disciplined, intensity during exam, searches for hidden meanings, anxiety over not knowing all

 PITFALLS Reads information

into question

IMPROVEMENT • **STRATEGIES** Loses sight of actual Focus on question as it intent of question is written Initial response usually

correct Avoid multiple re-readings of questions Practice with sample tests

**SECOND GUESSER:** answers questions twice, believes second look will allow correct answer, frequently changes initial responses (grades self) IMPROVEMENT STRATEGIES • <u>PITFALLS</u> Altering initial response results in incorrect answer Re-read only the few items of which one is unsure Avoid changing initial Changes answers due to pattern of response (too many "true" answers) responses Take exam carefully first time, no re-reading Study facts Avoid reading into questions

> IMPROVEMENT STRATEGIES PITFALLS Veers from obvious

> > read into question

to express feelings,

clarifies, identifies or avoids negating or confronting feelings

LAWYER: attempts to place words or ideas into question, occurs most frequently when asked for most

answer Provides response from own point of view Reads question, jumps to

conclusion

appropriate response



PREPARATION FOR EXAM

- **Develop thinking skills** Concentrate on learning subject Develop memory skills (EGBDF) Exercise the analysis of memorized facts (small groups)
  - Know the content
- Prepare for studying, be organized
  - organizea ▲ Actual study: short intervals, correct content not details, use study plan, take notes, use study guides, know when to quit

### PSYCH YOURSELF UP FOR THE EXAM, USE STRESS REDUCTION METHODS

- Good attitude
- Keep goals in mind
- Think positively
- Positive self talk, expect success
- Know yourself
- Persevere, endurance
- Develop strategies to reduce anxiety

# Kathy will be discussing......

- The benefits of certification as related to patient safety
- Assessment of your readiness to test
- More methods of preparing for the exam
- Content areas of the current exam

# **IOM Report**

- Linked continuing competency of health care providers with patient safety
- Recommended "health professional licensing bodies should implement periodic reexaminations...of doctors, nurses & other key providers".
- Made a clear link between competency of health care providers & patient outcomes, including deaths.

A Growing Body of Evidence...

• "Various studies have
added to evidence
supporting the validity of
the certifying exam.
These lend support to the
concept that fund of
knowledge is related to
quality of practice."

So - How Do You Know If You're Ready?

# The exam is designed for the newer ICP Do You Have?

• At least 2 years of "practice" in Infection Control with a minimum of 800 hours worked prior to the date of the examination

- Practice must be current - within 5 yrs

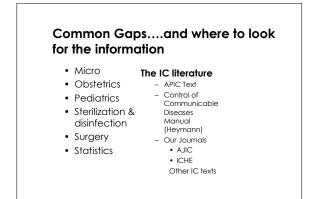
# 'Practice' is defined as: Analysis & interpretation of collected IC data Investigation & surveillance of suspected outbreaks

# 'Practice'

- And 3 of these:
  - Planning, implementation & evaluation of <u>IC measures</u>
  - <u>Education</u> of individuals abut infection risk, prevention & control
  - Development & revision of <u>IC</u> <u>policies</u>
  - <u>Management</u> of IC & P activities
     Provision of <u>consultation</u> on infection risk assessment, prevention & control strategies

# Getting Started

- Take another look at the 'Candidate Handbook'
- Review the exam content outline
- Consider your breadth of experience in Infection Control – are there gaps?
- Purchase the online Practice Exam from CBIC – it can't hurt, especially if you're a nervous tester!



### Other Help with Preparation

- Basic IC courses
- A 'Study Buddy'
- Local study groups
- APIC Certification Study Guide

### Exam Content Topics (Handbook)

### Identification of infectious disease processes

- Define terms: Colonization, infection, contamination, reservoir, incubation period, communicable period, susceptibility
- •
- Interpret diagnostic tests: lab, X-ray, gram stains, C&S, molecular strain results Recognize need to act on sentinel events
- •
- Describe collection, handling & transport techniques for specimens
   Differentiate among empiric, therapeutic and prophylactic antibiotic use
- . Assess staff/patient status regarding exposure, risk of transmission, lab results, symptoms, host risk factors
- Identify pathogenesis & micro classification of microorganisms

### Surveillance & Epidemiologic Investigation

- Design of surveillance systems
- Collection of surveillance data
- Compiling surveillance data
- Interpretation of surveillance data
- Outbreak investigation

# Statistics

• "Latest survey shows that 3 out of 4 people make up 75% of the world population."



### Preventing & Controlling the Transmission of Infectious Agents

- IC policies & procedures
- IC strategies: hand hygiene, cleaning, disinfection, sterilization, specific settings/procedures & devices, regulated medical waste, recalls, OP settings
- Isolation: when to start & stop
- Patient placement, transfer, discharge
- Environmental inspections: practices & hazards
- New product review
- Immunization of patients
- Air & water quality

### **Program Management** & Communication

- Program Planning & Resource Allocation
- Communication & feedback
- Human Resources
- Regulatory standards
- Quality/performance improvement

# **Education & Research**

- Education
  - Assess learner needs
  - Literature searches Develop programs – Evaluate
  - Evaluate effectiveness
  - Participate in orientation
- research - Incorporate into practice

Research

- Disseminate
- new
- information - Participate in
- research activities

# **Research: An Important Tool**

"It was recently discovered that research causes cancer in rats (!)"

### IC Aspects of Employee Health

- Develop strategies to reduce risk between patients & HCW
  - Pre-placement screening Other screening programs
  - Follow-up after exposures
  - Facilitate follow-up for EMS
  - Assess risk by job type/department
  - Assist Oc Health with analysis
  - Immunization program
  - Work restrictions
- Counseling following exposures – Implement a reporting system between Oc Health & IC

### People Who Do Infection Control Should Feel Good About Themselves

- It's a hard job.
- It's an important job.
- It's stressful.
- It's fast-paced.
- And ever-changing.





