









### Industry best practices

- » "The validity of inferences for certification examination scores rests primarily and solidly on the adequacy and defensibility of the methods used to define the content domain operationally, delineate clearly the construct to be measured, and successfully implement procedures to systematically and adequately sample the content domain" (Downing, 2006).
- » The outputs of job analysis provide a foundation for credentialing examinations that are "fair, job related, and legally defensible" (Chinn & Hertz, 2010, p.1).









# Identify Tasks and Knowledge, Skills, and/or Abilities

- » Typically 2-3 days for in-person meeting
- Define the MQC »
- » Identify important tasks
- Everyone needs to know how to do these high level things.
- » Identify KSAs
  - What does someone need to know to do the job task?
- At what level does someone need to know these things? » Translate the job tasks into measurable exam objectives
- How can we measure that someone knows how to perform the job task?

# **Determine Cognitive Complexity** Cognitive complexity identifies the level of cognitive processing required by the MQC Example of a hierarchy ranging from remembering facts to evaluating and creating information (Anderson et al, 2001) Analyze Create Remember Evaluate Apply ssociate-Leve Expert-Level







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### Accreditation Considerations: Frequent Stumbling Blocks

- » SMEs not sufficiently representative of the credentialed population
- Insufficient linkage between the findings of the JTA and...
   the examination blueprint
   the content of the examination
- » Lack of evidence-based rationale for the length of the recertification period
   \* Also informs frequency of JTAs/Reviews

Balasa & Fidler (2016)

#### **Representative SMEs**

- » Both JTA Panels & Survey Sample
- » Requires knowledge of profession and stakeholder groups
- » May be driven/constrained by policy considerations
- » JTA survey helps to meet this expectation





#### References

American Educational Research Association, American Psychological Association, & National Council on Measurement in Education. (2014). Standards for Educational and Psychological Testing: Washington, D.C.: American Educational Research Association. America National Standards Institute. (2008). Guidance on psychometric requirements for ANSI accreditation [ANSI=PCAC-GI-502]. Washington: DC. Author.

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Anderson, L. W., Krathweid, D., Ainsaian, P., Cajalishark, K., Myer, P., Pintrich, P., Raths, J. & Wittrock, W. (2001). A survoum for learning, Backing assessing: A revention of Boord T Sacration of educational backets. New York, NY: Addison Welser, Balasa, D. A., & Ficler, J. R. (2016). Five of the most frequent problem areas with NCCA applications: Washington, DC: Institute for Credentialing Excellence.

Equal Employment Opportunity Commission. (1978). Uniform guidelines on employee selection procedures. 29 CFR part 1607. Retrieved from http://uniformguidelines.com/uniformguidelines.html.

Institute for Credentialing Excellence. (2011). *Benchmarking best practices*. Washington, DC: Author.

Kane, M. T., Kingsbury, C., Colton, D., & Estes, C. (1989). Combining data on criticality and frequency in developing plans for licensure and certification learninations. *Journal of Educational Measurement*, 26, 17–27.
National Commission for Certifying Apendes. (2014). *Standards for the accreditation of certification programs*. Washington, DC: Institute for Creditationing Excellence.

Raymond, M. R. (2005). An NCME instructional module on developing and administering practice analysis questionnaires. Educational Measurement: Issues and Practice, 24(2), 29-42. doi:10.1111/j.1745-3992.2005.00009.x

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