Certified Metrication Specialist Program (CMS + CAMS + Lifetime)

USMA CMS Chair

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USMA CMS Program (national)



1980 – Initiated by Board of Directors

- Certify and provide source of metric experts
- Provide proper SI/Metric expertise and training

Thank You! Many CMS Chairpersons through the years

History of certifying metric expertise



Through 2009

- 242 CMS/CAMS Awards
- 68 Lifetime Awards



Opportunity

- Committee chair vacancy
- Reactivate national program

South Carolina CMS Program (state)

Thank You! Don Jordan





• The **Certified Metrication Specialist (CMS)** program is a metric certification program administered through USMA



 Designed to provide documentary evidence for individuals who can qualify as metrication specialists because of their education and experience in the use of the SI (the International System of Units) system



 The CMS program is structured to help maintain professional standards in the field of metrication



 Any person knowledgeable about SI units/symbols and the rules for their use is eligible for certification

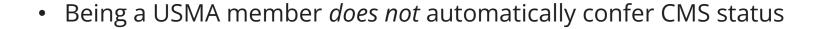




 Each applicant must supply objective proof that they have been involved in metric activities and usage



 CMS applicant does not have to be USMA member to become a Certified Metrication Specialist

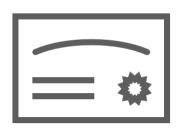




Certification status is verified through **Exam** (closed book/reference examination)

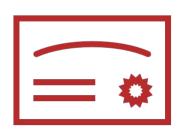


Certification categories include:



1) Certified Metrication Specialist (CMS):

Requires knowledge of the commonly used SI-metric units and symbols, plus the rules for using these everyday units and the ability to perform calculations with the everyday units.



2) Certified <u>Advanced</u> Metrication Specialist (CAMS):

Requires knowledge of: (1) the commonly used SI units and symbols; (2) the SI technical units and symbols; and (3) SI usage rules. Also requires the ability to use SI in engineering, scientific, technical areas and calculations.



[NOTE: the correct

answer is b]

EXAMPLES OF TYPES OF QUESTIONS THAT WILL BE INCLUDED IN THE CMS EXAMINATION

 Multiple choice questions with five-answer selections.
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						107,57	
1	All of the	following	symbols are	correctly	written e	excent	
4.	All Of the	TOHOWING	Symbolis are	conceny	WILLIAM C	meeps_	

- a. millimetre mm
- centimetre a b c ● e [NOTE: the correct ampere answer is d] watt
- millilitre
- Among the following, the best price per unit is
 - a. 500 g/\$1.25
 - 1 kg/\$2.35
 - 7.50 g/\$1.85
 - 1.5 kg/\$360
 - 900 g/\$2.30

EXAMPLES OF THE TYPES OF QUESTIONS THAT WILL BE INCLUDED IN THE CAMS EXAM

- Multiple choice questions with five-answer selections.
 - Given: 1 lbf = 4.4 N1 in. = 25.4 mm

Convert 35 psi to the SI equivalent. The correct rounded answer is ______.

- 2.4 x 10 kPa
- - 2.4 x 107 N/m²
- e. $2.4 \times 10^2 \text{ kPa}$
- One of the following derived units is not expressed correctly.
 - Wh
 - J/m/K
 - m/s mm/s

- NOTE: the correct answer is b]

NOTE: the correct

answer is e]

W•h

Both CMS & CAMS Examinations:



- 100 multiple choice questions
- Some require calculations
- Exam Duration 3 hours allowed
- No reference materials allowed

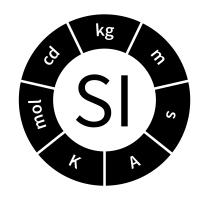


CMS and CAMS Lifetime Program

Lifetime Rating Qualifications:

US Metric Association (USMA)

- Certified Metrication Specialist (CMS) or
- Certified Advanced Metrication Specialist (CAMS)



The Candidate <u>must</u>:



- 1) Currently hold a USMA CMS or CAMS certificate and plaque; and
- 2) Have held that USMA CMS or CAMS rating for at least 3 years



Involved in metrication activities for the past 3 years

Activities such as:



- 1) Working with SI metric units (in industry, as an educator, in government disciplines, in publications work, or similar occupations or activities)
- **2)** Making metric system presentations
- **3)** Taking or teaching SI metric courses

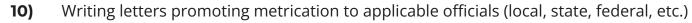


- 4) Attending metric meetings/conferences/workshops/seminars
- 5) Being a member of a metric organization since the original award of the CMS or CAMS rating
- 6) Holding an office in a metric organization





9) Authoring metric articles, books, texts, etc.



- 11) Supporting political candidates who favor US conversion to the metric system
- **12)** Writing letters to urge publications to emphasize SI or to correct SI usage errors







