



# Education & Outreach Moment

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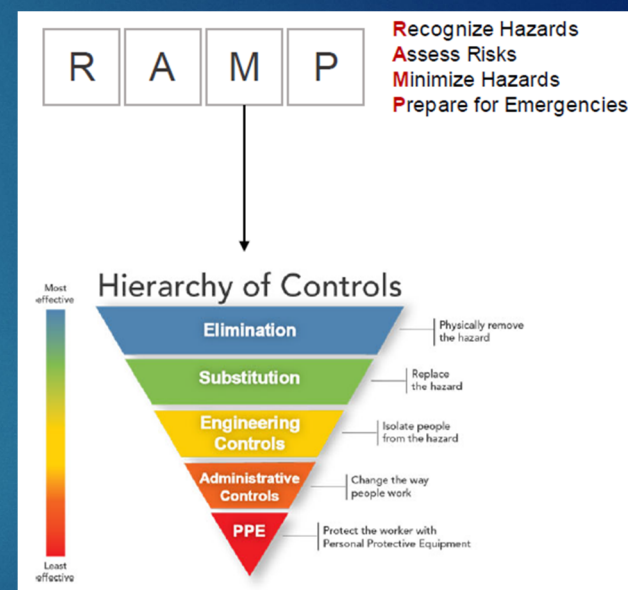
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# Teaching Safety in Undergraduate Education

How do we work towards improving safety competence in undergraduate education?



- **Safety education** focuses on core principles that can be applied to safety more generally.
- **Safety training** surrounds acquisition of specific skills.
  - A big issue comes with focusing only on training, and largely excluding education (R.H. Hill).
- Implementation in the classroom:
  - Introducing and applying RAMP early in safety education;
  - Including safety throughout laboratory curriculum;
  - Incorporating safety education in assessments; &
  - Development of “safety teams” and encouraging dialogue/discussions surrounding safety.



Finster, D. C. & Jackson, P. Comprehensive undergraduate safety instruction. *J. Chem. Educ.* 98, 39–44 (2020).  
Hill Jr, R. H. & Finster, D. C. *Laboratory Safety for Chemistry Students*. (John Wiley & Sons, 2016).  
<https://wp.stolaf.edu/chemical-hygiene/ramp-recognize-assess-minimize-prepare/>