

## 10 ELECTRICAL SAFETY

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### CASE STUDY

Dan Juliano is an electrician contractor who works primarily on residential summer homes in the Outer Banks of North Carolina. Summers are his busiest time of year, but during the winter he is often available as a guest lecturer for high school level industrial shop courses. A major part of Dan's lectures emphasize safe practices. He is amazed that many students simply think that accidents can't happen to them.

1. How might Dan enlighten these students as to the dangers of electricity? Perhaps he could explain what causes injuries in electric shock, and how the severity of electric shock is determined. Use your knowledge of electricity to explain what he might say.
  
2. One of the students asks Dan to describe some of the effects of current on the human body. How will he answer that question?
  
3. Dan is delighted that many of the students seem to take an active interest in what he has to teach. Another of the students asks him to explain what grounding is, and when it's required. What is equipment grounding and what is grounding of an electrical system?