



What Happens to the Human Body when it comes in Contact with Electricity?

Current Intensity:
(one second duration)

Effect:

| | |
|------------------|---|
| 1 mAmpere | Threshold of perception. |
| 5 mAmperes | Accepted as maximum harmless current intensity. |
| 10-20 mAmperes | Victim can still let go; sustained muscular contraction not yet a problem. |
| 50 mAmperes | Pain, strong muscular contraction; can't let go; possible fainting, exhaustion. Heart and respiratory functions continue. |
| 100-300 mAmperes | Ventricular fibrillation can start; respiratory functions continue. |
| 6 Amperes | Temporary cardiac and respiratory interruption; burns occur. |
| > 20 Amperes | Severe burns; physical dismemberment at higher currents. |

Source:

“Safety With Electricity” by Barry Lunt, Brigham Young University