



此试题将重复使用，请勿在试题上书

静电释放控制资格认证考试(IPC-DVD-CH54C)

本试卷包括24道多选题。所有试题出自静电释放控制培训教材(IPC-DVD-CH54C)。

每道试题只有一个最正确的答案。请在相应的字母外划圈，表明您所选择的答案。

如果想要更改答案，请擦掉原来的选择。

请在通读一遍考卷后，先回答那些您较确信的试题。过完第一遍后，再回头回答那些您不太确定的题目。如果看起来不止一个答案是正确的，请挑选似乎最正确最恰当的答案。

完成答题后，请检查确定已答完所有试题。并将考卷交给培训员。

本考试的合格分数为70%（或最少答对17道题）。

祝您成功!

静电释放控制资格认证考试(IPC-DVD-CH54C)

1. Static electricity is best described as 静电的最佳解释是
 - a. charge induction 电荷感应
 - b. electrostatic discharge 静电释放
 - c. an electrical charge at rest 静止的电荷
 - d. excessive valence electrons 过剩的价电子

2. Most people feel ESD above 多数人能感觉到的静电释放电压是高於
 - a. 2,000 volts 2,000伏
 - b. 20,000 volts 20,000伏
 - c. 20 volts 20伏
 - d. 200 volts 200伏

3. ESD sensitive components can be damaged by as little as ESD敏感器件会被低至 的静电损坏
 - a. 2,000 volts 2,000伏特
 - b. 20,000 volts 20,000伏特
 - c. 20 volts 20伏特
 - d. 200 volts 200伏特

4. Static electricity rapidly moves from one object to another when 静电会从一个物体快速地传到另一个物体，只要
 - a. any item is charged 任何物体积累了电荷
 - b. two objects with different charges come close together 两个带有不同电荷的物体靠近
 - c. two objects with the same charge come close together 两个带有相同电荷的物体靠近
 - d. none of the above 以上全不是

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5. A conductor will 一个导体可以
- prevent a wire from shorting to another wire
防止一条导线与另一条导线短路
 - resist the flow of electrical current 阻止电流通过
 - prevent the risk of shock 防止中电的危险
 - allow the flow of electrical current 允许电流通过
6. Insulators 绝缘体
- conduct electricity 传导电流
 - resist the flow of electrical current 阻止电流通过
 - fall somewhere in between conductors and static dissipating materials
介于导体与静电消散材料之间
 - are grounding devices 是接地装置
7. Static dissipative materials will allow a charge to be drained to ground
静电消散材料将允许电荷 排除到大地 。
- in a slow, controlled manner 缓慢受控地
 - rapidly, creating an ESD event 快速地 ，造成ESD事件。
 - only when the relative humidity is below 30 percent 只在相对湿度低於30%时
 - too slowly to be effective for ESD control 太慢地 ，以至不能有效控制ESD。
8. Devices damaged by ESD 被静电释放损坏的器件
- are easily fixed by a qualified technician 能很容易地被技术人员修好
 - always fail immediately 总是立即失效
 - may work at first, then fail later on 开始可能还可以用，以后才失效。
 - are not a problem as long as they pass electrical test
只要能通过电测试就不成问题

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9. If ESD isn't controlled, the results are usually 如果不控制ESD, 后果通常是
- a. higher costs 较高的成本
 - b. lower product quality 较低的产品质量
 - c. unhappy customers 不满意的顾客
 - d. all of the above 以上所有
10. The most important part of an ESD control program are the ESD控制计划最重要的是
- a. wrist and heel straps 接地腕带和接地鞋带
 - b. engineering controls 工程控制
 - c. employees 员工
 - d. ESD workstations ESD工作台
11. People who are not wearing appropriate personal grounding 没有佩戴适当接地装置的人
- a. should not be in an ESD protected area 不应该进入ESD保护区
 - b. should not touch product 不应该接触产品
 - c. should not perform operations at ESD workstations 不应该在ESD工作台上操作
 - d. all of the above 以上所有
12. The wrist strap needs to be 接地腕带须要
- a. worn snugly against the skin 紧贴皮肤佩戴
 - b. attached securely to a ground wire with a current limiting resistor 通过一个电流限制电阻安全地接到地线
 - c. able to be quickly connected or disconnected 能够很容易扣上与解开
 - d. all of the above 以上所有

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13. Shoe grounders are most effective for 接地鞋对 最有效。
- a. hand soldering operations 手焊作业
 - b. standing operations that require movement 需要移动的站立作业
 - c. seated operations 坐着操作
 - d. all of the above 以上所有
14. If you experience a problem when testing wrist straps or shoe grounders 如果您的接地腕带或接地鞋在检测时发生问题
- a. let your supervisor know immediately 马上通知您的上司
 - b. wiggle the wrist strap, then tap it five times 晃动腕带，然后敲打5次
 - c. place both feet on the metal plate, then plug in the wrist strap 双脚踏在金属板上，然后插入腕带
 - d. all of the above 以上所有
15. To control ESD, it' s best to wear clothes made of 要控制ESD，最好穿 衣料
- a. Rayon 人造纤维
 - b. wool 羊毛
 - c. cotton 棉
 - d. polyester 聚脂
16. Moving materials against each other will 物体互相磨擦会
- a. neutralize an electrostatic charge 中和静电荷
 - b. neutralize one material and create an electrostatic charge in the other material 中和一个物体上的电荷，在另一个物上生成静电荷
 - c. create an electrostatic charge 产生静电荷
 - d. remove static electricity 去除静电荷

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17. Examples of non-conductive, static generating materials include
产生静电的非导体材料包括
- a. tape dispensers and hair brushes 胶带卷和发刷
 - b. vinyl binders and plastic covers 塑胶文件夹和塑胶封面
 - c. Styrofoam cups and plastic safety glasses
聚苯乙烯泡沫塑料杯和塑胶安全护目镜
 - d. all of the above 以上所有
18. To reduce the effect of non-conductive items in the work place
为了减少工作区内非导电物品的影响，请
- a. apply an anti-static solution 使用抗静电液
 - b. use an air ionizer 使用空气离子机
 - c. operate with controlled humidity 在湿度控制的环境内操作
 - d. all of the above 以上所有
19. Static dissipative materials 静电消散材料
- a. dissipate humidity in the work area 驱除工作区的湿度
 - b. conduct electricity slowly enough to not damage ESD sensitive devices
足够慢地传导电流，以不致损坏ESD敏感器件
 - c. prevent electricity from being conducted 防止电流传导
 - d. ground electricity to make charges harmless 将电流引导至大地，使电荷无害
20. If you are not sure a device is ESD sensitive, you should
如果您不确定某一器件是否对ESD敏感，您应该把它
- a. treat it as if it were ESD sensitive 当作ESD敏感器件对待
 - b. treat it like any other device 当作普通器件一般对待
 - c. include it in the scrap report 纳入废弃物报告
 - d. none of the above 以上都不是

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21. To control ESD in the work area 为了控制工作区的ESD
- a. don't shuffle your feet when walking 走路时不要拖泥带水
 - b. don't comb your hair 不要梳头
 - c. don't touch static generating materials 不要接触产生静电的物质
 - d. all of the above 以上所有
22. Components should be 操作元件时
- a. handled only by the leads 只拿取元件引脚
 - b. handled only by the non-conductive portion of the body
只拿取元件上不导电的部位
 - c. pushed along a static dissipative surface, rather than handled
不用手拿取元件，而是沿静电消散表面推动元件
 - d. all of the above 以上所有
23. A sealed static shielding bag will 一个密封的静电屏蔽袋能
- a. prevent physical damage 防止物理损伤
 - b. degrade solderability 降低可焊性
 - c. protect an enclosed device from ESD damage 保护里面的器件不被ESD损坏
 - d. all of the above 以上所有
24. When transporting ESD sensitive devices 输送ESD敏感器件时
- a. always keep carts on ESD safe floors 始终保持运输车在ESD安全地板上
 - b. wear your wrist strap 戴好接地腕带
 - c. make sure the relative humidity is under 10 percent 确认相对湿度低於10%
 - d. use closed containers and carts designed for ESD sensitive devices
使用封闭的容器和ESD敏感器件专用运输车