附件2

粮油保管员职业（方向）比赛项目

技术要求调整说明

项目一：储粮通风机参数测定及风机配置合理性评价

一、毕托管规格：φ8mm×800mm。

二、测试管路外径400mm。壁厚由5mm调整为3～10mm，具体数值在赛题上提供。

三、先计算单位通风量，然后根据计算结果，判断风量与工艺要求的匹配度。粮种、数量等信息将在赛题上提供。

项目二：计算机粮情检测与分析

一、粮情检测点以“行-列-层”表示。（《房式仓粮情（粮温）报表模板》附后）。

二、粮食样品包括小麦、玉米、稻谷（粳稻和籼稻）。

三、害虫种类包括麦蛾。

四、选手筛理害虫后，可以在培养皿或筛底鉴定害虫种类和计算数量。

五、删除“谷物选筛筛层选择组装正确（4分）、谷物选筛筛理规范（2分）、挑选筛上大杂（2分）”等评分要点。

六、增加“使用体视显微镜，鉴定比赛现场所提供害虫的种类，并计算数量”的要求。将“害虫种类鉴定正确、害虫种类对应数量正确”等评分要点调整为“非指定害虫种类及数量（18分）、正确调节体视显微镜焦距（2分）、正确调节体视显微镜放大倍率（2分）、指定害虫种类及数量（4分）”。

项目三：佩戴自给式空气呼吸器进行粮面施药

一、施药盘规格：200 mm×270 mm。

二、检查管路气密性时，观察压力表的动作应不少于10s。

三、选手仅需将空气呼吸器复原整洁，其他除外。

四、增加“安全生产与防火检查”的要求。配分要点包括“检查灭火器有效期（2分）、检查灭火器压力（2分）、摆放熏蒸警示牌（1分）”。

五、将评分要点中“药剂摆放的均匀性”调整为“药剂摆放的合理性（8分，药片不接触盘底判为重叠。重叠或洒落盘外1粒扣1分，扣完为止）”和“药剂摆放的均匀性（4分，药剂每盘≤40粒扣1分；每盘≤30粒扣2分；每盘≤20粒扣4分，扣完为止）”

项目四：利用奥氏气体分析仪标定快速气体检测仪

一、检查三通活塞、CO2吸收瓶活塞、O2吸收瓶活塞气密性时，均要求稳定5s以上。

二、取气体样品时，排气和吸取气体次数由“3次以上”调整为“3次及以上”。

三、选手须以清洁空气校验调整快速气体检测仪1次及以上。

四、根据赛题提供的误差范围，判断快速气体检测仪测量O2 的CO2误差是否在仪器允许误差范围之内。

五、快速气体检测仪两次检测结果的误差范围由“0.2个百分点”调整为“0.5个百分点”。

附录

房式仓粮情（粮温）报表模板

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **某 号 房式仓粮情（粮温）报表** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 粮食品种 | | | | | |  | | | | | | 天气 | | | | | | |  | | | | | | 检测时间： | | | | | | 年/月/日/时 | | | | | |
| **行（X）** | | **列（Y）** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **层（Z）** | |
| **1** | | | **2** | | | **3** | | | **4** | | **5** | | | **6** | | **7** | | | **8** | | | **9** | | **10** | | | … | | | **Y** | | |
| 1 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | | 1  (表层) | |
| 2 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 3 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| … | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| **X** | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 1 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | | 2 | |
| 2 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 3 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| … | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| **X** | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 1 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | | … | |
| 2 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 3 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| … | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| **X** | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 1 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | | Z  (底层) | |
| 2 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 3 | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| … | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| **X** | |  | | |  | | |  | | |  | |  | | |  | |  | | |  | | |  | |  | | |  | | |  | | |
| 仓温(**℃)** | | |  | | | | | | 仓湿(%) | | | | |  | | | | | 气温(**℃)** | | | |  | | | | | 气湿(%) | | | | | |  | | |
| **各层粮温(℃)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **1层** | | | | | | | **2层** | | | | | | | | **3层** | | | | | | | **4层** | | | | | | | | **整仓** | | | | | | |
| 最高 | 最低 | | | 平均 | | | 最高 | | | 最低 | | 平均 | | | 最高 | | 最低 | | | 平均 | | 最高 | | | 最低 | | 平均 | | | 最高 | | | 最低 | | | 平均 |
|  |  | | |  | | |  | | |  | |  | | |  | |  | | |  | |  | | |  | |  | | |  | | |  | | |  |
| 生产年份 | | | | | |  | | | | | | 数量(kg) | | | | | | |  | | | | | | 粮堆尺寸（m） | | | | | | 长×宽×高 | | | | | |
| 入仓水分(%) | | | | | |  | | | | | | 当前水分(%) | | | | | | |  | | | | | | 产地 | | | | | |  | | | | | |
| 色泽、气味 | | | | | | | | | | | |  | | | | | | | 面筋吸水量/(%) | | | | | | | | | | | |  | | | | | |
| 脂肪酸值(KOH/干基/mg/100g) | | | | | | | | | | | |  | | | | | | | 品尝评分值/(分) | | | | | | | | | | | |  | | | | | |
| 入仓时间 | | | | | | 年/月/日/ | | | | | | | | | | | | |  | | | | | |  | | | | | | | | | | | |
| 检测人 | | | | | | | | |  | | | | | | | | | | 保管员 | | | | | | | | |  | | | | | | | | |

注：东南角最上层点（表中左上角）为第一个检测点，其位置采用先长度方向(X行)，再宽度方向(Y列)，最后高度方向（Z层)的顺序描述，坐标为（1-1-1）点，含义是：行、列、层。