Fiber Splicing - 250 micron Optical Cable

Description: The contestant will be expected to:
1) Prepare both ends of a length of 250-micron optical cable
2) Complete installation by fusion splicing both ends together with optical splice protector sleeve installed

Staffing: Two judges

Time Limit: Timed event - 5 min. limit
Must score & record event in Minutes, Seconds and Thousandths of a Second.

Props:
- Fusion splicer installation instructions
- 250-micron cable
- Optical splice protector sleeve
- Safety glasses
- Optical cable cleaning tool
- Alcohol
- Lint free Kim wipes
- ACT Cleaning tips
- Stackmat Timer
- Scoresheet
- Light Source

Competition: Prepare both ends of a piece of 250-micron cable (may be 900-micron) and install splice protector sleeve on one end of the cable before following the manufacturer’s recommended installation instructions. Judging will be based on quality of workmanship and final results, not on system or MSO splicing policies and procedures.

There will be one judge per contestant, usually two judges and two contestants at a time. Scoring is done while splicing. Critiquing, if any, must be quick.

Scoring:
- 100 points possible
- Eleven guidelines for evaluating
- Maximum 20 points per guideline check, 1-10 points based on quality per judge’s observation
- Winner based on total points scored
- Time is the tie-breaker
Fiber Splicing Scoresheet

OBJECTIVE:
The participant will be expected to proficiently execute the following:
A) Prepare both ends of a length of fiber optic cable
B) Fuse two fiber optic ends together
C) Complete installation of one fiber optic protective sleeve

SUPPLIED:
- Fusion Splicer
- Protective sleeves
- Kim Wipes
- Preparation tools
- Miller Stripper
- Cleaver
- Alcohol dispenser
- Safety glasses
- Light Source
- Stackmat Timer

RULES AND REGULATIONS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>POSSIBLE</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation of Cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wearing of Safety glasses</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Appropriate length of, and removal of outer protective coatings</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Appropriate cleaning of optical cable</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Correct cleave of optical cable</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Correct cleave length of optical cable</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

FUSION SPLICE

Obtaining a 0.00 to 0.05 dB loss estimate results in maximum score | 10       |

Proper installation of splice protection sleeve | 10       |

Appropriate cleaning / inspection of fusion splicer for chards | 5        |

Appropriate cleaning / inspection of cleaver for chards | 5        |

Installation Time (5 minute time limit) | 10       |

Maximum points to be earned | 100      |

In case of point tie, the fastest time will be used to determine winner.

Name ___________________________________________  Total Points ____________
Team ___________________________________________  Time ______________:_____.______
Judge ___________________________________________  Minutes  Seconds  Thousandth