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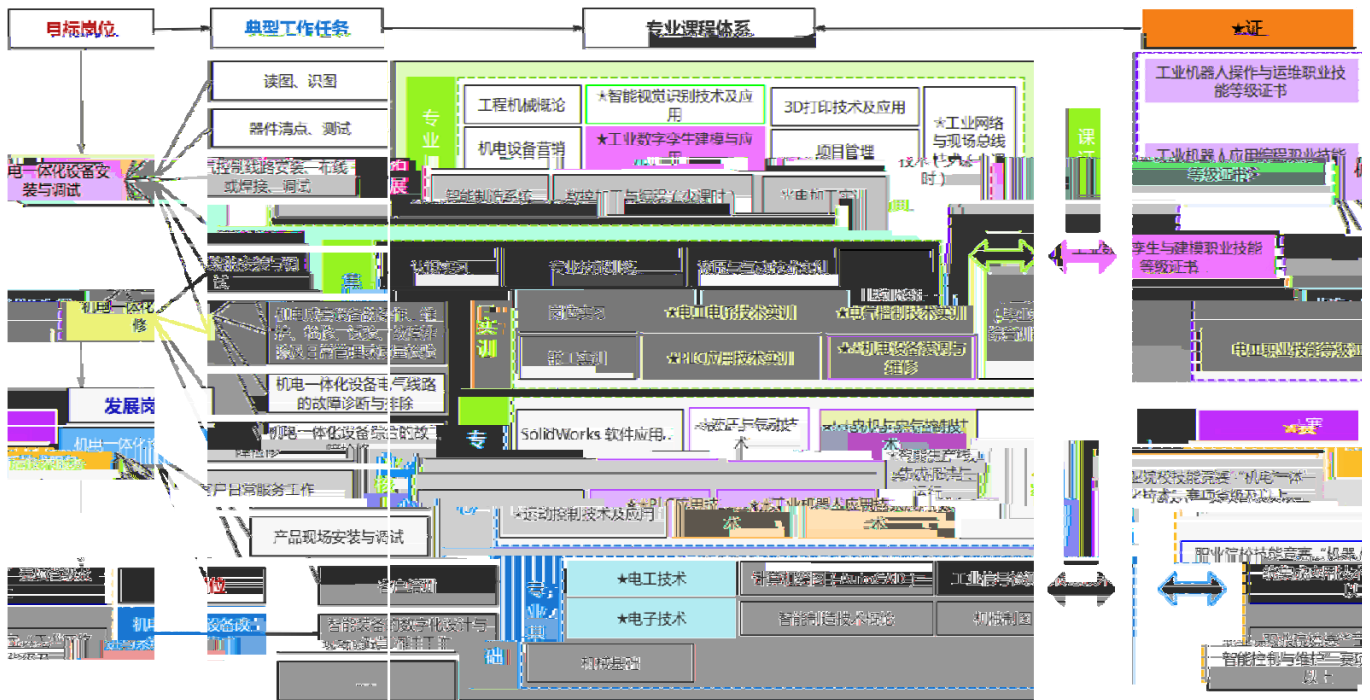


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|  |  |  | <ol style="list-style-type: none"> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol> |  | PLC<br>PLC |

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|  |  |  | PLC |

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|  |  | 1.<br>2.<br>3.<br><br>4.PLC<br><br>5.<br>6.<br>7.MES<br>8.<br>9. | PLC |
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|  |  | 1<br>2<br>3<br>4      | 1<br><br>2<br>3<br>4<br><br>5         | Q1<br>Q2<br>Q5<br>K2<br>A1<br>A4                         |
|  |  | 1<br>2<br>3<br><br>4  | 1<br><br>2<br><br>3<br><br>4<br><br>5 | Q1<br>Q2<br>Q3<br>Q5<br>Q6<br>K2<br>A1<br>A2<br>A3<br>A4 |
|  |  | 1<br>2<br>3<br>4<br>5 | 1<br><br><br><br>2                    | Q1<br>Q2<br>K1<br>A1                                     |

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|--|---------------------------|---|---|----------------------|
|  |                           | 6<br>7  | 3<br><br>4<br>+<br>70%+                      30%  |                      |
|  |                           |   | 5<br>https://www.xueyinonline.com/detail/223382450  |                      |
|  |                           | 1<br><br>2<br><br>3<br>4<br>5<br>6<br><br>7<br><br>8<br>9<br>10<br>11<br><br>12<br>13<br><br>14<br><br>15       “       ”<br><br>16<br><br>17 | 1<br><br><br>2<br><br><br>3<br><br><br>(4<br><br>70%+                      30%                      + | Q1<br>Q2<br>K2<br>A1 |
|  | ，<br>“<br>”<br><br>“<br>” | 1<br>2<br>3 “       ”<br>4  | 1<br><br><br>2<br><br><br>3<br>+<br>70%+                      30%                                     | Q1<br>Q2<br>K2<br>A1 |
|  |                           | 1<br>2<br>3<br>4  | 1<br><br><br>2<br>3<br><br>4<br><br><br>50%   | Q1<br>Q2<br>K2<br>A1 |

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|  |     |   | 50%<br>5<br><a href="http://www.xueyinonline.com/detail/232892669">http://www.xueyinonline.com/detail/232892669</a>  |  |
|  |     | 1<br>2<br>3                                 | 1<br>2<br>3<br>4<br>5<br>30%<br>40%<br>30%   | Q1<br>Q2<br>Q3<br>Q5<br>K1<br>A1<br>A3                   |
|  | “ ” | 1<br>2<br>3<br>4<br>5<br>6<br>50 800/1000 / | 1<br>2<br>3<br>4<br>5<br>6<br>+<br>+<br>6<br><a href="https://mooc1.chaoxing.com/course-ans/ps/209127794">https://mooc1.chaoxing.com/course-ans/ps/209127794</a> | Q1<br>Q2<br>Q3<br>Q4<br>Q5<br>Q6<br>K2<br>A1<br>A2<br>A3 |
|  |     | 1<br>2<br>3                                 | 1<br>”<br>2  | Q1<br>Q2<br>K1<br>A1<br>A2<br>A3<br>A4                   |

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|  |        | 4   | 3<br>4<br><br>5 40% 60%<br>6<br><a href="https://mooc1-1.chaoxing.com/course/209428561.html">https://mooc1-1.chaoxing.com/course/209428561.html</a><br><a href="https://mooc1-1.chaoxing.com/course/209426872.html">https://mooc1-1.chaoxing.com/course/209426872.html</a>                            |  |
|  |        | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | 1<br><br>2<br><br>3<br><br>3<br><br>4<br><br>5 30% 70%<br>6<br><a href="https://www.xueyinonline.com/detail/232690747">https://www.xueyinonline.com/detail/232690747</a>  | Q3<br>Q6<br>K2<br>A1<br>A3                         |
|  | Matlab | 1<br>2<br>3<br>4<br>5<br><br>6 Matlab           | 1<br><br>2<br><br>3 + Matlab<br>4<br>5 40% 60%<br>+ “ ” 60%<br><br>40%<br>6<br><a href="https://www.xueyinonline.com/detail/227362361">https://www.xueyinonline.com/detail/227362361</a><br><a href="https://www.xueyinonline.com/detail/227362463">https://www.xueyinonline.com/detail/227362463</a> | Q1<br>Q2<br>Q5<br>Q6<br>K2<br>A1<br>A2<br>A3<br>A4 |



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|  |  |                                     | <b>6</b><br><a href="http://c.huaxuegroup.com">http://c.huaxuegroup.com</a><br><a href="https://mooc1-1.chaoxing.com/course/232709915.html">https://mooc1-1.chaoxing.com/course/232709915.html</a>  |  |
|  |  | 1<br>2                              | <b>1</b><br><br><b>2</b><br><br><b>3</b><br><b>4</b><br><br><b>5</b> 60%<br>40%<br><br>50%<br><br><b>6</b><br><br><a href="https://mooc1-1.chaoxing.com/course-ans/ps/222828395">https://mooc1-1.chaoxing.com/course-ans/ps/222828395</a> | Q1<br>Q2<br>Q4<br>K2<br>A2             |
|  |  | 1<br>2<br>3<br>4<br>5<br><br>6<br>7 | <b>1</b><br><br><br><br><br><b>2</b><br><br><br><br>+<br><br><b>3</b><br><b>4</b> +                      +<br><br><b>5</b><br>70%                      30%  | Q1<br>Q2<br>Q3<br>Q5<br>K1<br>A1       |
|  |  | 1<br>2<br>3                         | <b>1</b><br><br><br><br><b>2</b> “                      ”<br><br><br><b>3</b><br><b>4</b>   | Q1<br>Q2<br>Q3<br>Q5<br>K1<br>A1<br>A3 |

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| •                |                | 1<br>2<br>3                          | 1<br>2<br>3<br>“ + ”<br>4<br>5<br>60%<br>40%<br>6<br><a href="http://mooc1.chaoxing.com/course/204704884.html">http://mooc1.chaoxing.com/course/204704884.html</a> | Q1<br>Q2<br>Q5<br>Q6<br>K3<br>K4<br>A3<br>A4<br>A5<br>A6 |  |
| Aut<br>oCAD<br>• | CAD<br><br>CAD | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8 | 1<br>2<br>3<br>4<br>5<br>60%<br>40%<br>6<br><a href="https://mooc1.chaoxing.com/course/87127797.html">https://mooc1.chaoxing.com/course/87127797.html</a>          | Q1<br>Q2<br>Q5<br>Q6<br>K3<br>K4<br>A3<br>A4<br>A5<br>A6 |  |
| •                |                | 1<br>2<br>3                          | 1  | Q1<br>Q2<br>Q5   |  |

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|   | Multisim | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12 RC<br>13                      | 2<br><br>3<br><br>4<br>5<br><br>40%<br>6<br><a href="https://www.xueyinonline.com/detail/232865203">https://www.xueyinonline.com/detail/232865203</a>          | Q6<br>Q7<br>K1<br>K3<br>K4<br>K6<br>A4<br>A5<br>A6<br>A7<br><br>≥120m <sup>2</sup><br><br>60%                   |  |
| • | 555      | 1<br><br>Multisim10<br>2<br>3<br>(<br>4<br><br>Multisim10<br>5<br>6<br>555 | 1<br><br>2<br><br>3<br><br>4<br>5<br><br>40%<br>6<br><a href="https://www.xueyinonline.com/detail/232865203">https://www.xueyinonline.com/detail/232865203</a> | Q1<br>Q2<br>Q5<br>Q6<br>Q7<br>K1<br>K3<br>K4<br>K6<br>A4<br>A5<br>A6<br>A7<br><br>≥120m <sup>2</sup><br><br>60% |  |
|   |          | 1<br>2<br>3<br>4   | 1  | Q5<br>Q6<br>Q8  |  |

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|   |    | 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14                         | 2<br><br>3<br><br>4<br><br>5<br><br>40%<br>60%  | K1<br>K3<br>K5<br>A2<br>A5<br>A7<br>A8<br>A9             |  |
| • |    | 1<br><br>2<br><br>3<br><br>4  | 1<br><br>2<br><br>3<br><br>4<br><br>5<br><br>40%<br>60%<br>6<br><br><a href="https://www.xueyinonline.com/detail/219351613">https://www.xueyinonline.com/detail/219351613</a> | Q1<br>Q2<br>Q6<br>K1<br>K8<br>A1<br>A3<br>A5<br>A17      |  |
|   | 6S | 1<br>2<br>3<br>4<br>5<br>6<br>7<br><br>8<br>9<br>10<br>11<br>12<br>13<br>14 | 1<br><br>2<br><br>3<br><br>4<br><br>5<br><br>40%<br>60%   | Q2<br>Q6<br>Q8<br>K1<br>K3<br>K6<br>A1<br>A3<br>A7<br>A9 |  |

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|  |  |  | 6<br><a href="http://mooc1.chaoxing.com/course/208956247.html">http://mooc1.chaoxing.com/course/208956247.html</a> |  |  |
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|---|-----|-----|----|-----------|-----|-----|---|-----|
|   |     |     | 1  | PLC       |     | 1   |   | PLC |
|   |     |     | 2  | PLC       |     |     |   |     |
|   |     |     | 3  | GX Works2 |     |     |   |     |
|   |     |     | 4  |           | PLC | 2   |   |     |
|   |     |     | 5  |           | Y-  |     |   | PLC |
|   |     |     | 6  | PLC       |     | 3   |   | PLC |
|   |     | 6S  | 7  | PLC       |     | 4   |   |     |
|   |     |     | 8  |           |     |     |   |     |
|   |     |     | 9  |           |     | 5   |   |     |
|   |     | PLC |    |           |     |     |   |     |
|   |     |     | 10 | PLC       |     |     |   |     |
|   |     |     | 11 |           |     |     |   |     |
|   | PLC |     |    |           |     |     |   |     |
|   |     | PLC |    |           |     |     |   |     |
|   |     |     | 12 |           |     | 70% |   | 30% |
|   |     |     |    |           |     | 6   |   |     |
| 2 |     |     |    |           |     | 0   |   |     |
|   |     |     | 13 | 8         |     |     | 1 | 14  |
|   |     |     |    |           |     |     |   | 5   |
|   |     |     | 14 |           |     |     |   |     |
|   |     |     | 15 |           |     |     |   |     |
|   |     |     | 16 | PLC       |     |     |   |     |
|   |     | PLC |    |           |     |     |   |     |
|   |     |     | 17 | 2FX3U-3AD |     |     |   |     |
|   |     |     | 18 |           |     |     |   |     |
|   |     |     | 19 |           |     |     |   |     |
|   |     |     | 20 |           |     |     |   |     |
|   |     |     | 21 | CCLink    |     |     |   |     |
|   |     |     | 22 |           |     |     |   |     |

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|  | I/O | <p>6 Robotstudio</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12 RobotStudio</p> <p>13</p> <p>14 60% 40%</p> <p>15</p> <p>16</p> <p>17 <a href="https://www.xueyinonline.com/detail/232675308">https://www.xueyinonline.com/detail/232675308</a></p> <p>18</p> <p>19</p> <p>20 RobotStudio</p> <p>21 Smart</p> <p>22 Smart</p> <p>23</p> <p>24</p> <p>25</p> | <p>3</p> <p>4</p> <p>5 “1+X”</p> <p>6</p> | <p>K2</p> <p>K3</p> <p>K6</p> <p>K8</p> <p>A1</p> <p>A2</p> <p>A11</p> <p>A15</p>  | <p>“</p> <p>”</p> <p>“</p> <p>”</p> |
|  | 6S  | <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p>  | <p>1</p> <p>2</p> <p>3</p> <p>4</p>       | <p>Q1</p> <p>Q2</p> <p>Q5</p> <p>Q6</p> <p>Q7</p> <p>Q8</p> <p>K1</p> <p>K3</p> <p>K6</p> <p>A2</p> <p>A3</p> <p>A5</p> <p>A6</p> <p>A7</p> <p>A9</p> <p>A13</p> | <p>“</p> <p>”</p>                   |

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|            |            | 10<br>11<br>12<br>Y/<br>13<br>14<br>15<br>16   | 5<br><br>60%      40%<br><br>6<br><a href="http://mooc1.chaoxing.com/course/207467956.html">http://mooc1.chaoxing.com/course/207467956.html</a> |  |            |
|            | PLC        | 1<br>2<br>3      S7-1200<br>4    S7-1200PLC<br>V90PN<br>5<br>6    PLC<br>7    S7-1200<br>8      G120<br>9    S7-1200    G120C<br>PN<br>10              V90PN<br>11   S7-1200    PN<br>V90 PN | 1<br><br>2<br><br>3<br><br>4<br><br>5<br><br>40%      60%   | Q1<br>Q5<br>Q6<br>Q7<br>K1<br>K2<br>K3<br>K6<br>K8<br>A1<br>A2<br>A3<br>A9<br>A10<br>A15 | “<br><br>” |
| SolidWorks | SolidWorks | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8   | 1<br><br>2      SolidWorks<br><br>3<br>SolidWorks<br><br>4  | Q1<br>Q2<br>Q5<br>K4<br>K5<br>A3<br>A4<br>A6<br>A8<br>A17                                |            |



|   |               |   |   |   |     |
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|   | SolidWorks    |   | 5<br><br>40%<br><br>60%   |   |     |
| • |               | 1<br>2<br>3<br>4 Q2-8<br>5 YT4345<br>6 YB32-200<br>7<br>8         | 1<br><br>2<br><br>3<br><br>4<br><br>5<br><br>40%<br>60%<br>6<br><a href="https://www.xueyinonline.com/detail/233438777">https://www.xueyinonline.com/detail/233438777</a> | Q2<br>Q5<br>Q8<br>K1<br>K5<br>K6<br>K7<br>K9<br>A1<br>A2<br>A5<br>A6<br>A7<br>A8<br>A9<br>A13 | “ ” |
|   | 6S<br><br>PLC | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13 | 1<br><br>2<br><br>3<br><br>4<br><br>5<br><br>70%<br><br>30%   | Q1<br>Q5<br>Q8<br>K6<br>K7<br>K8<br>A1<br>A2<br>A4<br>A9<br>A10<br>A15<br>A17                 | “ ” |

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|  |  | 14 |  |  |  |
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|  |  | 3 | 2 | Q8 |  |
|  |  | 4 |   | K3 |  |
|  |  | 5 |   | K5 |  |
|  |  |   | 3 | A4 |  |
|  |  |   | 4 |    |  |

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|  |    |   | 5<br>"+ "  |   |  |
|  |    | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | 1<br><br>2<br><br>3<br>≥120m <sup>2</sup><br>4<br>5<br><br>6<br>60% 40%<br><a href="https://www.xueyinonline.com/detail/232865203">https://www.xueyinonline.com/detail/232865203</a> | Q5<br>Q6<br>Q7<br>K6<br>A7                    |  |
|  |    | 1<br>2<br>3<br>4<br>5                           | 1<br><br>2<br><br>3<br>4<br>5<br>+ +<br>40% 60%  | Q8<br>K5<br>A6<br>A8                          |  |
|  | 6S | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8            | 1<br><br>2<br><br>3  | Q5<br>Q7<br>Q8<br>K6<br>A6<br>A7<br>A9<br>A13 |  |

9 M7120  
X62W T68

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|  |  |  | <p>4</p> <p>5</p> <p>60%                  40%</p> <p>6</p> <p><a href="https://www.xueyinonline.com/detail/233438777">https://www.xueyinonline.com/detail/233438777</a></p> |   |  |
|  |  | <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> | <p>1</p> <p>2</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>60%                  40%</p>   | <p>Q7</p> <p>Q8</p> <p>Q9</p> <p>K5</p> <p>K7</p> <p>K9</p> <p>A9</p> <p>A13</p> <p>A14</p> <p>A15</p>                            |  |
|  |  | <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p>          | <p>1</p> <p>2</p> <p>3</p> <p>4</p>   | <p>Q1</p> <p>Q2</p> <p>Q5</p> <p>Q6</p> <p>K1</p> <p>K3</p> <p>K5</p> <p>K6</p> <p>K7</p> <p>A1</p> <p>A3</p> <p>A6</p> <p>A7</p> |  |

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|  | PLC        |  | 5<br>20%   | 40%<br>40% | A9<br>A10<br>A11<br>A13<br>A15  |  |
|  | PLC<br>CAD | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12                  | 1<br><br>2<br><br>3<br>4<br>5<br><br>25%         | 20%        | Q5<br>Q6<br>K4<br>K5<br>K6<br>K7<br>K8<br>K9<br>A2<br>A4<br>A5<br>A6<br>A7<br>A9<br>A10<br>A11<br>A13<br>A14<br>A15 |  |
|  | "6S"       | 1<br>2<br>1<br>2<br>3<br>4<br>3<br>1<br>2<br>3<br>4<br>4<br>1<br>2<br>3<br>4 | 1<br>2 3<br><br>2<br>1<br>3<br>4<br>5<br><br>30% | 20%<br>50% | Q5<br>Q6<br>Q7<br>Q8<br>Q9<br>K1<br>K3<br>K5<br>K7<br>K9<br>A1<br>A2<br>A5<br>A6<br>A7<br>A8<br>A9                  |  |

|  |  |                  |  |                                 |  |
|--|--|------------------|--|---------------------------------|--|
|  |  | 5<br>5<br>6<br>7 |  | A10<br>A11<br>A13<br>A14<br>A15 |  |
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| 3D<br>• | 3D<br>3D<br>3D<br>3D<br>3D<br>3D<br>3D | 1 3D<br>2 3D<br>3 3D<br>4 3D<br>5 3D<br>6 3D<br>7 3D | 1<br>2 3D<br>3 3D<br>4<br>+ ”<br>5<br>+ 40%<br>6<br><a href="http://mooc1.chaoxing.com/course/203884275.html">http://mooc1.chaoxing.com/course/203884275.html</a> | Q5<br>Q6<br>K3<br>K8<br>A4<br>A5<br>A8<br>A17  |  |
|         |  | 1<br>2<br>4<br>5<br>6<br>7<br>8                      | 1<br>2<br>1+X<br>3<br>1+X<br>4  | Q5<br>Q6<br>Q9<br>K8<br>A3<br>A4<br>A12<br>A17 |  |

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|--|----|---|--|---|--|
|  |    | 9   | “ ”<br>5<br>40%<br>60%<br>6<br><a href="http://mooc1.chaoxing.com/course-ans/courseportal/233709895.html">http://mooc1.chaoxing.com/course-ans/courseportal/233709895.html</a> |   |  |
|  | PC | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13 | 1<br>6S<br>2<br><br>3<br>4<br><br>5<br>20% 30%<br>50%<br>6<br><a href="http://mooc1.chaoxing.com/course/231292404.html">http://mooc1.chaoxing.com/course/231292404.html</a>    | Q5<br>Q6<br>Q8<br>K6<br>K8<br>A2<br>A4<br>A7<br>A15 |  |
|  |    | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                         | 1<br>2<br><br>3<br>4<br><br>5  | Q6<br>K3<br>K10<br>A2<br>A15                        |  |



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|  |  |  | 6<br><a href="https://www.xueyinonline.com/detail/229085588">https://www.xueyinonline.com/detail/229085588</a> |   |  |
|  |  | 1<br>2<br>3<br>4   | 1<br>2<br>3<br>4<br>5<br>60% 40%   | Q6<br>Q9<br>K7<br>K8<br>A2<br>A3<br>A4<br>A15   |  |
|  |  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8                             | 1<br>2<br>3<br>4<br>5<br>60% 40%   | Q6<br>Q9<br>K10<br>A2<br>A3<br>A4<br>A16        |  |
|  |  | 1<br>2<br>3 MES<br>S7<br>4 MODBUS-RTU<br>5 S7<br>Modbus TCP<br>6 | 1<br>" " " " " "<br>2<br>3<br>4<br>5<br>60%  | Q1<br>Q6<br>Q9<br>K6<br>K7<br>A10<br>A13<br>A15 |  |

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|  |  |                            | 40%  |  |  |
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|  |  | 1<br>2<br>3<br>4<br>5<br>6 | 1<br><br>2<br><br>3<br>4<br>5<br>+ +<br>40% 60%  | Q5<br>Q8<br>K3<br>K5<br>K8<br>A4<br>A5<br>A6<br>A8 |  |
|  |  | 1<br>2<br>3<br>4           | 1<br><br>2<br><br>3<br>4<br>" " " "<br>5<br>40% 60%  | Q5<br>Q6<br>Q7<br>K5<br>K8<br>A5<br>A6<br>A8       |  |
|  |  | 1<br>2<br>3<br>4           | 1<br><br>2<br><br>3<br>4   | Q5<br>Q6<br>K3<br>K8<br>A5                         |  |

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|  |  |  | <p>5</p> <p>60%</p> <p>40%</p> <p>6</p> <p><a href="https://www.xueyinonline.com/detail/233071131">https://www.xueyinonline.com/detail/233071131</a></p> |  |  |
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|  |  | <p>1</p> <p>2</p> <p>3</p>                                     | <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>70%</p> <p>30%</p> | <p>Q1</p> <p>Q2</p> <p>A2</p> <p>K2</p> |  |
|  |  | <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> | <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>30%</p> <p>70%</p> | <p>Q1</p> <p>Q2</p> <p>Q4</p> <p>K2</p> |  |

1

1

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Q1  
Q2  
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70%

30%

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1.

20:1

60%

3:4:3

60%

2:5:3

9-1

|  |  |     |                                |
|--|--|-----|--------------------------------|
|  |  |     |                                |
|  |  | 65% | RobotStudio SolidWorks AutoCAD |
|  |  | 35% |                                |

2.

3.

4.

1.

WiFi

2.

|   |    |                      |    |
|---|----|----------------------|----|
| 1 | 1. | $\geq 200\text{m}^2$ | 50 |
|   | 2. |                      |    |
|   | 3. |                      |    |
|   | 4. |                      |    |
| 2 | 1. | $\geq 60$            | 30 |
|   | 2. | $\geq 200\text{m}^2$ |    |
|   | 3. | $\geq 6$             |    |
|   | 4. | $\geq 6$             |    |
| 3 | 1. |                      | 40 |
|   | 2. |                      |    |
|   | 3. |                      |    |
|   | 4. | $\geq 100\text{m}^2$ |    |
|   | 5. |                      |    |
|   | 6. |                      |    |
|   | 7. | 80                   |    |
|   | 8. |                      |    |
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|---|--|---|--|----|-------------------------|
| 4 |  | (AutoCAD)<br>SolidWorks                   | ≥90m <sup>2</sup><br><br>≥50                               | 50 | (AutoCAD)<br>SolidWorks |
| 5 |  | 1.<br>2.<br>3.<br>4.<br>5.PLC<br>5.<br>6. | ≥90m <sup>2</sup><br>THPYC-1<br>PLC<br>THPQD-1<br>PLC<br>7 | 40 |                         |
| 6 |  | 1.<br>2.<br>3.<br>4.<br>5.                | ≥300m <sup>2</sup><br><br><br>≥10<br>≥10<br>1<br>1         | 40 |                         |
| 7 |  | 1.<br>2.<br>3.<br>4.                      | ≥90m <sup>2</sup><br><br>30                                | 30 |                         |
| 8 |  | 1.<br>2.<br>3.<br>4.                      | ≥100m <sup>2</sup>   | 40 |                         |

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|    |  | 5.<br>6.<br>7.<br>8.<br>9.<br>10.<br>11.<br>12.<br>13.M7120<br>T68 X62W | ≥40   |    |            |
| 9  |  | 1. PLC<br>2. PLC<br>Y-<br>PLC<br>3. PLC<br>4.<br>5. PLC<br>6.<br>7.     | ≥100m <sup>2</sup><br>PLC<br>PLC<br>40<br>≥40 | 40 | PLC<br>PLC |
| 10 |  | 1.<br>2.<br>3.  | ≥100m <sup>2</sup>                            | 40 |            |

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|----|---|---|---------------------------|----|-----|
|    |   | 4.<br>5.<br>6.<br>7.                        | ≥20                       |    |     |
| 11 |   | 1.<br>2.                                    | ≥90m <sup>2</sup><br>≥20  | 40 |     |
| 12 | + | 1. AGV<br>2.MES<br>3.<br>4.<br>5. PLC<br>6. | ≥100m <sup>2</sup><br>≥20 | 40 |     |
| 13 |   | 1.<br>2.<br>3.MES<br>4.                     | ≥200m <sup>2</sup><br>1   | 40 | PLC |
| 14 |   | 1.<br>2.<br>3.                              | ≥100m <sup>2</sup>        | 40 |     |
| 15 |   | 1.<br>2.<br>3.X                             | ≥100m <sup>2</sup><br>≥20 | 40 |     |

3.

9-3

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**4.**

**1.**

PLC

**2.**



3.

|  |         |   |
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|  |         |   |
|  |         | <a href="http://mooc1.chaoxing.com/course/204704884.html">http://mooc1.chaoxing.com/course/204704884.html</a>       |
|  | AutoCAD | <a href="https://mooc1.chaoxing.com/course/87127797.html">https://mooc1.chaoxing.com/course/87127797.html</a>       |
|  |         | <a href="http://mooc1.chaoxing.com/course/208956247.html">http://mooc1.chaoxing.com/course/208956247.html</a>       |
|  |         | <a href="https://www.xueyinonline.com/detail/232675308">https://www.xueyinonline.com/detail/232675308</a>           |
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|  |         | <a href="https://www.xueyinonline.com/detail/232865203">https://www.xueyinonline.com/detail/232865203</a>           |
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|  |         | <a href="https://www.xueyinonline.com/detail/219351613">https://www.xueyinonline.com/detail/219351613</a>           |
|  |         | <a href="http://mooc1.chaoxing.com/course/231292404.html">http://mooc1.chaoxing.com/course/231292404.html</a>       |
|  |         | <a href="http://mooc1.chaoxing.com/course/207467956.html">http://mooc1.chaoxing.com/course/207467956.html</a>       |
|  |         | <a href="https://mooc1.chaoxing.com/course/204362411.html">https://mooc1.chaoxing.com/course/204362411.html</a>     |
|  |         | <a href="http://mooc1.chaoxing.com/course/203884275.html">http://mooc1.chaoxing.com/course/203884275.html</a>       |

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|  |  | <a href="http://mooc1.chaoxing.com/course-ans/courseportal/233709895.html">http://mooc1.chaoxing.com/course-ans/courseportal/233709895.html</a> |
|  |  | <a href="https://www.xueyinonline.com/detail/233071131">https://www.xueyinonline.com/detail/233071131</a>                                       |
|  |  | <a href="https://www.xueyinonline.com/detail/229085588">https://www.xueyinonline.com/detail/229085588</a>                                       |

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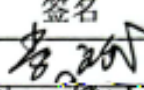

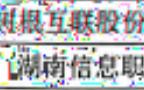

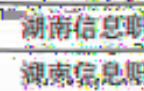


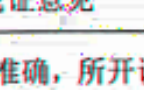
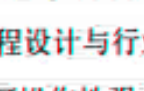
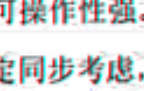
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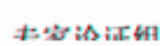


附件 2:

## 湖南信息职业技术学院机电工程学院 2022 级 机电一体化技术专业人才培养方案论证书

| 论证专家（专业建设指导委员会成员） |     |              |            |   |
|-------------------|-----|--------------|------------|---|
| 序号                | 姓名  | 职称/职务        | 工作单位       | 签名  |
| 1                 | 李斌  | 副教授/机电学院院长   | 湖南信息职业技术学院 |    |
| 2                 | 李立峰 | 项目经理         | 树根互联股份有限公司 |    |
| 3                 | 郭纪斌 | 副教授/机电学院副院长  | 湖南信息职业技术学院 |    |
| 4                 | 李颖  | 教授/专业带头人     | 湖南信息职业技术学院 |    |
| 5                 | 左光联 | 正高级工程师/专业带头人 | 湖南信息职业技术学院 |   |
| 6                 | 李亚  | 副教授/专业带头人    | 湖南信息职业技术学院 |  |
| 7                 | 李春云 | 副教授/专业带头人    | 湖南信息职业技术学院 |  |
| 8                 | 钱萍  | 副教授/专业带头人    | 湖南信息职业技术学院 |  |
| 9                 | 陈文才 | 副教授/专业带头人    | 湖南信息职业技术学院 |  |
| 10                | 胡玲玲 | 讲师/专业带头人     | 湖南信息职业技术学院 |  |

| 论证意见   | 论证意见   |
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| <p>课程符合国家标准，核心课企业接轨，具有一定的先进性。在人才培养方案具体实施中，构建培养目标、毕业要求、课程目标、课程内容、考核方式之间的相互支撑关系，方案通过评审，并在 2022 级学生中实施。</p> <p style="text-align: right;">专家组长 </p> <p>2022 年 6 月 30 日</p> | <p>人才培养方案目标清晰、合理、准确，所开设的课程设置合理、专业基础和专业方向课程设计与行业、企业对接紧密，各种教学及相关任务合理具体，可操作性强。建设过程中，课程建设与人才培养方案制定同步考虑，切实体现课程目标、课程内容、考核方式之间的相互支撑关系。</p> <p style="text-align: center;">专家组一致同意机电一体化技术专业人才培养方案在 2022 级学生中实施。</p> <p style="text-align: right;">专家组长 </p> |

注：各二级学院组织专业建设指导委员会审核后，由论证专家签署意见并手写签名，此表扫描后与人才培养方案一并装订。

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