FLUID POWER CHALLENGE DÉFI ÉNERGIE DES FLUIDES

# Local Challenge Rubric

*(short version)*

| | Criteria | Points |
|---|---|---|
| **Portfolio Rubric**<br><br>*Total possible points: 50* | • Quality of portfolio's presentation including title and index pages | 0 – 5 |
| | • A detailed outline of each team member's participation in the production of the portfolio and planned production of the device | 0 – 5 |
| | • At least three illustrations of the initial design concepts of a possible device | 0 – 5 |
| | • List of materials used to build a prototype from the Workshop Kit | 0 – 5 |
| | • Description of the use of principles of structural strength and stability | 0 – 5 |
| | • Rationale used do decide on the type of fluid power used and where to place the piston-syringes | 0 – 5 |
| | • An isometric drawing of the portion of the prototype used to grab the object | 0 – 5 |
| | • An orthographic drawing showing dimensions and construction notes | 0 – 5 |
| | • A list of alternative materials that would have been useful with reasons why they would have been so | 0 – 5 |
| | • Evaluation of a prototype including conclusions from making it | 0 – 5 |
| **Teamwork & Work Habits**<br><br>*Total possible points: 10* | • Members of the team work independently and co-operatively in an organized way | 0 – 5 |
| | • Members of the team demonstrate safe working practices | 0 – 5 |
| **Device Design, Construction & Operation**<br><br>*Total possible points: 10 + placement points* | • The device uses materials effectively and is well constructed with parts securely attached | 0 – 5 |
| | • The device itself operates efficiently and is operated in an organized way | 0 – 5 |
| | • Object placement points accumulated in designated time period | |
| **Interview Questions**<br><br>*Total possible points: 20* | • See detailed *Challenge Rubric* for wording of questions | 0 – 20 |

Canadian Fluid Power Association
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