



CONTEST DESCRIPTION
DESCRIPTION DE CONCOURS

AEROSPACE TECHNOLOGY TECHNOLOGIE AÉROSPATIALE

POST-SECONDARY
NIVEAU POSTSECONDAIRE

CONTINUOUS LEARNING



FORMATION CONTINUE

DIGITAL



COMPÉTENCES NUMÉRIQUES

DOCUMENT USE



UTILISATION DE DOCUMENTS

NUMERACY



CALCUL

ORAL COMMUNICATION



COMMUNICATION ORALE

READING TEXT



LECTURE

WORKING WITH OTHERS



TRAVAIL D'ÉQUIPE

WRITING



RÉDACTION

THINKING



CAPACITÉ DE RAISONNEMENT

1. The Importance of Essential Skills for Careers in the Skilled Trades and Technology

SCC is currently working with Employment and Social Development Canada (ESDC) in order to bring awareness to the importance of Essential Skills that are absolutely crucial for success in the workforce. Part of this ongoing initiative requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. The next phase and very important aspect of our Essential Skills (ES) initiative is to provide an ES report card to each competitor at the Skills Canada National Competition. The purpose of the ES report card is to inform the competitor about their current level of essential skills based on their competition scores. With this knowledge, the competitor will be made aware which essential skill may require improvement. This will be piloted in a number of areas for 2016 with full implementation in the 2017 Skills Canada National Competition.

This is part of an ongoing initiative that requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. Essential skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills means you will understand and remember concepts introduced in technical training. The level of Essential Skills required for most trades is as high or higher than it is for many office jobs. The following 9 skills have been identified and validated as key essential skills for the workplace in the legend below:

¹Numeracy, ²Oral Communication, ³Working with Others, ⁴Continuous Learning, ⁵Reading Text, ⁶Writing, ⁷Thinking, ⁸Document Use, ⁹Digital

These essential skills have been identified with in section 2.3 and/or 3.2 of your Contest Description. The top three Essential Skills for your area of competition have been identified on your Project and all other supporting project documents..

2. CONTEST INTRODUCTION

2.1 Purpose of the Challenge.

To assess the contestants skills and knowledge in performing tasks in the aerospace industry.

2.2 Duration of contest.

12 hours

3. CONTEST DESCRIPTION

3.1 List of documents produced and timeline for when competitors have access to the documents.

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
No other documents will be produced prior to the competition	

3.2 Tasks that may be performed during the contest

- Structural repair (2 hours)
 - Read and interpret technical documents.
 - Determine repair requirements.
 - Fabricate repair parts.
 - Install fabricated repair parts.
- Aircraft Electrical (2 hours)
 - Read and interpret technical documents.
 - Determine repair and/or modification requirements.
 - Perform the required repair and/or modification
 - Perform functional tests as appropriate.⁷
- Aircraft Maintenance (2 hours)
 - Read and interpret technical documents.
 - Perform required maintenance activities
 - Perform functional tests as appropriate.⁷
- Engine Maintenance (2 hours)
 - Read and interpret technical documents.
 - Perform required maintenance activities
 - Perform functional tests as appropriate.⁷
- Weight & Balance (2 hours)
 - Read and interpret technical documents.
 - Perform required activities
 - Complete documents as required.⁷
- Rigging
 - Read and interpret technical documents.
 - Perform required maintenance activities
 - Perform functional tests as appropriate.

Essential Skills – ¹Numeracy, ⁷Thinking (Critical), ⁸Document Use

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Specialized hand tools – Mac Tools
- Cleaning supplies
- Shop supplies / equipment
- Sheet metal supplies
- Sheet metal tooling – Mac Tools
- Aircraft electrical supplies
- Aircraft electrical tooling
- Aircraft Engines
- Aircraft engine tooling – Mac Tools
- Training aircraft
- Manufactures manuals

COMPETITORS WILL BE REQUIRED TO USE THE MATERIAL AND EQUIPMENT PROVIDED BY SCC. ALL OTHER MATERIAL AND EQUIPMENT WILL BE REMOVED FROM THE SKILL AREA.

4.2 Equipment and material provided by the competitor

- Basic hand tools
 - 1/4" inch Drive Socket Set – 12 pt
 - Combination Wrenches (1/4" to 7/8" including 9/32" and 11/32")
 - Set of Screwdrivers (Phillips, standard)
 - Duckbill and/or Lock-Wire Twisters
 - Needlenose Pliers
 - Diagonal Cutters
 - 6-10 oz Ballpeen Hammer
 - Soft Face Hammer
 - 12" Steel Ruler
 - Calculator (Non-programmable)
 - Inspection Mirror
 - Flashlight

Notes:

- Tools required in accordance to this list may be available on site for competitors who fail to provide them, with a corresponding penalty.
- Specialty tools will be assessed on an individual basis.

4.3 Required clothing (Provided by competitor)

- Appropriate work place clothing

Note: Your contest area for SCNC 2016 will be hosted outside under tents. Come prepared for any weather conditions and dress accordingly.

5. SAFETY REQUIREMENTS

5.1 List of required personal protective equipment (PPE) provided by competitors

- Safety Glasses
- CSA approved Safety shoes
- Hearing Protection

6. ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN	/100
Structural repair	20
Aircraft electrical	20
Aircraft maintenance	20
Engine maintenance	20
Weight and balance	20

7. ADDITIONAL INFORMATION

7.1 Consecutive translation

If consecutive translation is required on site, the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this service might not be guaranteed.

7.2 Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score in the sheet metal criteria will be declared the winner. If a tie is still remaining, the electrical criteria score will be used to break the tie.

7.3 Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, NTC shall change a maximum of 30% of the work content. Please refer to the Competition Rules.

7.4 Competition Rules

Please refer to the competition rules of the Skills Canada National Competition.

8 NATIONAL TECHNICAL COMMITTEE MEMBERS

Member Organization	Name	Email address
British Columbia	Rick Johnstone	
Manitoba	Brian Deane	
Ontario	Bernie Wurster	
Québec	Louis Deschênes	
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Alberta	Chuck Luehr	