

# RC Scale Rules June 2014

## RC Scale Competition in NZ

If you are thinking about entering a scale competition, you should first start practicing flying your models in a scale like manner. Use the throttle stick, don't zoom the model around the sky – think of what a full size aircraft would look like!

Talk to other modeler's about flying different types of scale models and what this entails; for example a biplane has different handling characteristics to a monoplane, a tail-dragger requires different techniques for take-offs and landings to a tri-cart aircraft etc.

Once you feel ready to enter a competition, school up on the rules below, and contact the SIG for more information.

A contestant may make multiple entries, at the discretion of the CD. (This rule is to promote more entries while also allowing the CD to limit them if/when numbers require this.)

## Scale Classes in NZ

In NZ we have four scale classes, but usually only three are flown. We normally do not have the entries to fly F4C.

Models must comply with NZMAA standards of maximum weight, wing loading and engine capacity.

All categories involve the competitor flying 10 maneuvers in front of two or three judges who score each maneuver out of 10 points.

## Novice

Is for people competing in scale for the first time, entrants who have not participated in recent competitions and/or people who wish to compete in a simpler form of event without the need to have their model judged statically.

1. The model must be a recognisable Scale Model, either from a kit, plan or ARF including foam molded aircraft. There is no builder of the model rule. The contest director has the right to refuse entry to any model which does not resemble a full size aircraft in some way.
2. A scale paint scheme is not required.
3. Once you win Novice at the National championships, you may no longer fly in this class again at any level.
4. The event is judged ONLY on flying. There is no static judging.
5. The flight rules, judging criteria, and scoring are taken directly from the latest FAI F4C scale rule book. Please refer to section 6.3.6 – 6.3.11 and 6C.1 – 6C.3.7 and 6E.2 in the [FAI F4C rule book](#).

Here you will see each major maneuver shown in diagram form and what to watch out for when flying the maneuver.

Practice flying as many of these maneuvers as you can. Choose the ones that best suit your model. For example, if you have an aerobatic model, like a Stearman or an Extra, then try aerobatic maneuvers, such as stall turns, Cuban Eights etc. If you have a non-aerobatic model, like a DC3 or Percival Gull, then try non-aerobatic maneuvers that best suit the ones most likely to have been flown by the full-size aircraft.

Enter a competition. There are North Island and South Island RC Scale competitions and also Nationals. This is where you get to learn so much about RC Scale by talking to people who are willing to share their experience and knowledge.

### **Intermediate:**

Is for people who have won Novice at scale competitions previously, or those wishing to compete at a higher level. Again, there is no static judging.

1. The model must be a recognisable Scale Model, either from a kit, plan or ARF including foam molded aircraft. There is no builder of the model rule. The contest director has the right to refuse entry to any model which does not resemble a full size aircraft in some way.
2. A scale paint scheme is not required.
3. Once you win Intermediate at the National championships, you may choose to move onto Classic scale, or continue to fly in Intermediate.
4. The event is judged ONLY on flying. There is no static judging.
5. The flight rules, judging criteria, and scoring are taken directly from the latest FAI F4C scale rule book. Please refer to section 6.3.6 – 6.3.11 and 6C.1 – 6C.3.7 and 6E.2 in the [FAI F4C rule book](#).

### **Classic:**

As RC Scale also fosters the building of scale model aircraft, Classic scale includes static judging of your model by the judges, in addition to your flying. For this, you need to supply documentation on your aircraft. For Classic Scale, this is only one page. [Typical Documentation for Classic Scale](#)

1. The entrant must be the builder of the model but prefabricated and composite kits may be used without penalty. Models purchased with surface finish applied (ARF) are not eligible. (If they have been recovered and refinished by the builder, then they are eligible).
2. A scale paint scheme is required.
3. The F4C flight rules, judging criteria, and scoring are taken directly from the latest FAI F4C scale rule book. Please refer to section 6.3.6 – 6.3.11 and 6C.1 – 6C.3.7 and 6E.2 in the [FAI F4C rule book](#). Flight Points account for 50% of the maximum total points (theoretical flying points available = 1000).
4. Scale Appearance Points account for 50% of the maximum total points (theoretical static points available = 1000). Documentation for Scale Appearance judging should be mounted on one folded A3 sheet and comprises a 3 view and a photograph (or drawing) of the full size aircraft in the colour scheme matching your model. One or more judges may be appointed to award Scale Appearance Points. If there is more than one judge, points are awarded by consensus.

Scale Appearance Points Allocation:

Front View = 100 points

Side View = 100 points

Plan View = 100 points

Colour = 100 points

Markings = 100 points

Craftsmanship = 500 points

**F4C:**

Please refer to the [FAI F4C rule book](#).