According to the FINA Constitution, the powers and duties of the Technical Committees are:

- to analyse the requirement for improvements of the respective discipline, and to consider corresponding proposals at the congress, at the technical committee meeting, or at the bureau meeting. The Technical Committee submits in these cases recommendations to the bureau,
- to consider and decide upon any matter affecting their particular responsibility, which may be referred to them by the bureau or the congress,
- to appoint sub-committees, if required, to investigate, study, and recommend to the parent committee any matters referred to such sub-committee. The members of a sub-committee may be persons selected from outside the parent committee membership,
- to investigate, study, and recommend on matters dealing with standard equipment and specifications of competitive pools for Olympic Games or international competitions,
- to evaluate and make recommendations regarding candidates, nominated by members, for the title of international referee, starter or judge to be selected by the bureau,
- to appoint one or more of its members to report on the qualifications of any person recommended as an international referee, starter and to report periodically on the continued qualifications of referees, judges, or starters on the existing list,
- to receive and report to the FINA Bureau any complaint made by referees regarding misconduct of individuals in international competitions and to make recommendation thereon,
- to take part in the technical preparations and in the conduct of the competitions in their discipline at the Olympic Games, World Championships and other FINA competitions,
- the Bureau shall ensure participation of the committees in the preparation of the meetings of the Bureau with regard at the congresses, at the technical committee meeting, or at the bureau meeting. The Technical Committee submits in these cases recommendations to the bureau,
- to control all technical equipment and installations prior to and during the event,
- to make rosters for officials, and
- to investigate cases of protest as preparation for the jury of appeal.

Doreen Tiborc, Chairman
Mel Goldstein, Vice Chairman
Ed Evely, Honorary Secretary
Farid Abi Raad, Member
Obaid Ahmed Obaid Saleh Aljasmi, Member
Joaquim Pestana Rodrigues Da Costa, Member
Roger Eagles, Member
Boris Golosoun, Member
Kurt Mikkola, Member
Kerrie Punivalu, Member
Ferenc Salamon, Member
Carlos Tabini, Member
Ahmed Touny, Member
Majid Waseem, Member
Andy Knowles, Events Sub-Committee
Evenel Mervilus, Events Sub-Committee
Hordur J. Oddfridarson, Events Sub-Committee
Ulrike Urbaniaik, Events Sub-Committee
Mohamed Diop, Bureau Liaison