

Academic & Education Regulations

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APPROVED

1. Academic Regulations: For Accreditation and Approval of education programmes for the purpose of elections to Chartered Member as Chartered Chemical Engineer, Associate Member as Incorporated Chemical Engineer and Technician Member as Chemical Engineering Technician

Accreditation of Educational Programmes (chemical engineering)

- 1.1 Accreditation is the process used by IChemE to assess whether specific educational programmes provide all or some of the underpinning knowledge, understanding and skills for eventual registration in a particular registration category.
- 1.2 In making a judgement, IChemE will consider evidence from a range of indicators. These shall include: the learning outcomes of the programme; the teaching and learning processes; the assessment strategies employed; the human, physical and material resources involved; the awarding education institution's regulations regarding compensation for underperformance; quality assurance arrangements; entry to the programme and how the cohort entry extremes will be supported.
- 1.3 IChemE shall specify: the process of selecting, training and approving volunteer professionals to be accreditation assessors for qualifications whose primary purpose is to provide academic formation in the field of chemical engineering; the constitution of accreditation panels. In particular, there shall be a balance of academic and industry assessors and the panel shall include assessors with experience relevant to the appropriate registration category (eg all shall be Chartered Members of IChemE, at least two shall be in the grade of Fellow); the form of the submission required from the education provider; any charges which may be levied; the outline agendas for accreditation visits appropriate to the range of programmes; the criteria against which the accreditation judgement will be made, including learning outcomes; the processes by which further consultation with the education provider is carried out, decisions are made, feedback is given to the education provider concerned; the processes by which appeals against decisions are considered, and the decisions notified to the Engineering Council.
- 1.4 Accreditation for purposes of registration as Chartered Chemical Engineer or Incorporated Chemical Engineer or Chemical Engineering Technician shall be conducted by IChemE and against the processes and procedures outlined in *Accreditation of Chemical Engineering Programmes - a guide for higher education providers and assessors*.
- 1.5 In considering applications for accreditation, IChemE shall ensure that: only programmes which provide awards granted on the basis of defined programme specifications with clearly defined learning outcomes shall be accredited; the awarding institution, and (normally all) providers involved in delivering all or substantial parts programme are visited as part of the accreditation assessment; when the awarding institution offers multiple versions of a programme in different locations, each location for which programme accreditation is sought is visited and treated as a separate application.
- 1.6 The outcome of an accreditation assessment shall be one of the following: the programme is accredited as fully meeting the educational requirement for Chartered Chemical Engineer or Incorporated Chemical Engineer or Chemical Engineering Technician registration; the programme is accredited as partially meeting the educational requirement for Chartered Chemical Engineer or Incorporated Chemical Engineer or Chemical Engineering Technician registration; either of the above, provided specified conditions are met and/or specified modifications are made within a set timetable.

- 1.7 Programmes shall be accredited for a fixed period of not more than five years, except that accreditation may be back dated to allow cohorts on the programme at the time it is first accredited to benefit from the decision. Programmes which at the time of application do not have an output cohort may be accredited, but IChemE shall monitor the output of such programmes and review their accreditation accordingly.
- 1.8 Re-accreditation of a programme shall normally be by the same process as for initial accreditation unless there is in place an arrangement for continuing periodic audit and review (which may involve evidence obtained by other bodies) which has been approved by IChemE's Qualification Committee .

Approval of Qualifications and Programmes (chemical engineering)

- 1.9 Approval of a qualification or programme in chemical engineering attests to its overall design, the depth and range of coverage, and the validity and reliability of the assessment strategy. It does not necessarily assure that every candidate completing it has the required underpinning knowledge and understanding.
- 1.10 In approving a qualification or programme in chemical engineering, IChemE shall ensure that: it has clearly defined outcomes and is of an appropriate technical nature in chemical engineering to be demonstrated by mapping to competence and commitment statements; and has satisfactory quality assurance arrangements.
- 1.11 Qualifications and programmes shall be approved for a fixed period of not more than five years, but this period shall be shortened if the qualification or programme undergoes significant change during this period. Re-approval of a programme shall be by the same process as for initial approval.

2. Academic regulations: For Accreditation and Approval of education programmes for the purpose of elections to or transfer to Chartered Member as Professional Process Safety Engineer

Accreditation of Educational Programmes (process safety)

- 2.1 Accreditation is the process used by IChemE to assess whether specific educational programmes provide all or some of the underpinning knowledge, understanding and skills for eventual registration in a particular registration category.
- 2.2 In making a judgement, IChemE will consider evidence from a range of indicators. These shall include: the learning outcomes of the programme; the teaching and learning processes; the assessment strategies employed; the human, physical and material resources involved; the awarding education institution's regulations regarding compensation for underperformance; quality assurance arrangements; entry to the programme and how the cohort entry extremes will be supported.
- 2.3 Accreditation of programmes in process safety that provide an academic underpinning leading to registration as a Professional Process Safety Engineer shall be on the basis of those programmes delivering the learning outcomes specified by IChemE, eg those pertaining to ALL of the A, B and C competences defined in *The Standard for Professional Engineering Competence in Process Safety*.
- 2.4 Accreditation of programmes in process safety provide an academic underpinning leading to registration as a Professional Process Safety Engineer and to that of Chartered Engineer shall also be on the basis of those programmes delivering against the generic statements of learning outcomes stated by Engineering Council for Chartered Engineer.
- 2.5 Accreditation for purposes of registration shall be conducted by IChemE and against the processes and procedures outlined in *Accreditation of Chemical Engineering Programmes - a guide for higher education providers and assessors*.
- 2.6 IChemE shall specify: the process of selecting, training and approving volunteer professionals to be accreditation assessors for qualifications whose primary purpose is to provide academic formation in the field of process safety; the constitution of accreditation panels. In particular, there shall be a balance of academic and industry assessors and the panel shall include assessors with experience relevant to the appropriate registration category (eg all shall be Chartered Members of IChemE, at least one shall be registered as Professional Process Safety Engineer; the form of the submission required from the education provider; any charges which may be levied; the outline agendas for accreditation visits appropriate to the range of programmes; the criteria against which the accreditation judgement will be made, including learning outcomes mapped to the generic statement of learning outcomes described in paragraph 2.3 above; the processes by which further consultation with the education provider is carried out, decisions are made, feed-back is given to the education provider concerned; the processes by which appeals against decisions are considered, and the decisions notified to the Engineering Council.
- 2.7 In considering applications for accreditation, IChemE shall ensure that: only programmes which provide awards granted on the basis of defined programme specifications with clearly defined learning outcomes shall be accredited; the awarding institution, and all providers involved in delivering the programme, are visited as part of the accreditation assessment; when the

awarding institution offers multiple versions of a programme in different locations, each location for which programme accreditation is sought is visited and treated as a unique application.

- 2.8 The outcome of an accreditation assessment shall be one of the following: the programme is accredited as fully meeting the educational requirement for Professional Process Safety Engineer registration; the programme is accredited as partially meeting the educational requirement for Professional Process Safety Engineer registration; either of the above, provided specified conditions are met and/or specified modifications are made within a set timetable.
- 2.9 Programmes shall be accredited for a fixed period of not more than five years, except that accreditation may be back dated to allow cohorts on the programme at the time it is accredited to benefit from the decision. Programmes which at the time of application do not have an output cohort may be accredited, but IChemE shall monitor the output of such programmes and review their accreditation accordingly.
- 2.10 Re-accreditation of a programme shall normally be by the same process as for initial accreditation, unless there is in place an arrangement for continuing periodic audit and review (which may involve evidence obtained by other bodies) which has been approved by IChemE's Qualification Committee.

Approval of Qualifications and Programmes (process safety)

- 2.11 Approval of a qualification or programme in process safety attests to its overall design, the depth and range of coverage, and the validity and reliability of the assessment strategy. It does not necessarily assure that every candidate completing it has the required underpinning knowledge and understanding.
- 2.12 In approving a qualification or programme in process safety, IChemE shall ensure that: it has clearly defined outcomes and is of an appropriate technical nature in process safety to be demonstrated by mapping to competence and commitment statements; and has satisfactory quality assurance arrangements. For degree programmes Benchmarking, the reduced form of Accreditation shall normally be used as the basis for approval. The accreditation process is documented in *Accreditation of Chemical Engineering Programmes – a guide for higher education providers and assessors*.
- 2.13 Qualifications and programmes shall be approved for a fixed period of not more than five years, but this period shall be shortened if the qualification or programme undergoes significant change during this period. Re-approval of a programme shall be by the same process as for initial approval.