



## Optional assessment guidance 2023–24

This guidance is **optional**. You can use this guidance or deliver and assess as outlined in the group award specification.

<b>Group award title and code:</b>	<a href="#">HND in Applied Chemical Sciences (SCQF level 8) GK6H 16</a>
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The approach you take **must** meet the:

- ◆ full evidence requirements for graded units
- ◆ national standards

### Changes to conditions of assessment and/or evidence requirements

The following guidance applies to session 2023–24. No action is required for any units certificated on or before 8 August 2023.

#### Theory assessments

You can assess all units in the group award outcome-by-outcome. If you use a cut-off score for an examination-based assessment, the cut-off score must be 60% for each assessment. If you assess a single outcome using an examination-based assessment, the cut-off score must also be 60%.

You cannot remediate examination-based assessments. If a candidate does not pass, you must re-assess them using an alternative examination-based assessment.

If selected, you must assess the following units using closed-book assessments:

- ◆ [Applications of Transition Metal Compounds \(SCQF level 8\) H92M 35](#)
- ◆ [Aromatic Chemistry: Theory and Laboratory Skills \(SCQF level 8\) H92N 35](#)
- ◆ [Base-Catalysed and Organometallic Chemistry: Theory and Laboratory Skills \(SCQF level 8\) H92P 35](#)
- ◆ [Electrochemistry \(SCQF level 8\) H92T 35](#)
- ◆ [Fundamental Chemistry: Theory and Laboratory Skills \(SCQF level 7\) H92X 34](#)
- ◆ [Inorganic Chemistry: Theory and Laboratory Skills \(SCQF level 7\) H92Y 34](#)

- ◆ [Main Group Inorganic Chemistry \(SCQF level 8\) H932 35](#)
- ◆ [Mathematics for Science 1 \(SCQF level 6\) H8XP 33](#)
- ◆ [Mathematics for Science 2 \(SCQF level 7\) H8XR 34](#)
- ◆ [Organic Chemistry: Theory and Laboratory Skills \(SCQF level 7\) H933 34](#)
- ◆ [Organic Stereochemistry: Theory and Laboratory Skills \(SCQF level 8\) H934 35](#)
- ◆ [Phase Equilibrium and Surface Chemistry \(SCQF level 8\) H935 35](#)
- ◆ [Physical Chemistry: Theory and Laboratory Skills \(SCQF level 7\) H936 34](#)
- ◆ [Statistics for Science 1 \(SCQF level 6\) H8XT 33](#)
- ◆ [Statistics for Science 2 \(SCQF level 7\) H8XV 34](#)
- ◆ [Thermodynamics and Kinetics: Theory and Laboratory Skills \(SCQF level 8\) H938 35](#)
- ◆ [Transition Metal Chemistry: Theory and Laboratory Skills \(SCQF level 8\) H939 35](#)

If you want to use different approaches to assessment rather than a traditional closed-book examination, you can amend a maximum of **6** optional credits from closed-book to open-book assessment. Examples include, but are not limited to:

- ◆ case studies
- ◆ group discussions
- ◆ investigations
- ◆ presentations
- ◆ projects
- ◆ supervised assessments covering the application of knowledge and understanding and problem solving

If you are using open-book assessments, the following applies.

- ◆ You cannot amend any of the units listed above to open-book.
- ◆ For any supervised and timed open-book assessments, candidates are restricted to **one page** of summary notes for each outcome, and this must be in their own words.
- ◆ You must not use a traditional closed-book examination in open-book supervised conditions.
- ◆ The revised assessment task(s) must have the same level of demand as the original assessment.
- ◆ You cannot use questions from SQA's assessment support packs (ASPs) in open-book assessments.
- ◆ You must split the **6** open-book optional credits into:
  - 3 credits in year 1
  - 3 credits in year 2

**Note:** some open-book assessments used in previous sessions are no longer valid. You must ensure that all open-book assessments meet the criteria listed above.

## Practical experiments

We have introduced an abbreviated pro forma. This should avoid candidates being repeatedly assessed on laboratory reporting skills that they have adequately demonstrated competence in the [Laboratory Skills for Science Industries \(SCQF level 7\) H91V 34](#) unit. It also allows more time to further develop practical skills.

You can only use an abbreviated pro forma when a candidate has demonstrated full competence in the required laboratory reporting skills, as detailed in the [Laboratory Skills for Science Industries \(SCQF level 7\) H91V 34](#) unit. The revised laboratory reporting requirements for the group award are:

- ◆ [Laboratory Skills for Science Industries \(SCQF level 7\) H91V 34](#)
- ◆ **Three** full laboratory reports at SCQF level 8
- ◆ All remaining practical experiments can be reported using an abbreviated pro forma, a laboratory diary entry, a pro forma or a full laboratory report.

You can amend the practical requirements for the following unit:

- [Thermodynamics and Kinetics: Theory and Laboratory Skills \(SCQF level 8\) H938 35](#)
  - reduce to **one** practical experiment

If you are assessing a multistep practical experiment in the following units, you can amend the practical requirements, as shown:

- [Organic Chemistry: Theory and Laboratory Skills \(SCQF level 7\) H933 34](#)
  - reduce to **one** multistep practical experiment
- [Main Group Inorganic Chemistry \(SCQF level 8\) H932 35](#)
  - reduce to **one** multistep practical experiment
- [Aromatic Chemistry: Theory and Laboratory Skills \(SCQF level 8\) H92N 35](#)
  - reduce to **one** multistep practical experiment
- [Base-Catalysed and Organometallic Chemistry: Theory and Laboratory Skills \(SCQF level 8\) H92P 35](#)
  - reduce to **one** multistep practical experiment

A multistep practical experiment must involve a minimum of **three** steps at SCQF level 7 and **four** steps at SCQF level 8. Examples of steps that could contribute towards a multistep practical experiment are:

- ◆ Synthesis (which itself could be more than one step) — providing the steps are substantive, for example preparation of a Grignard reagent followed by its reaction with a carbonyl compound could count as distinct steps
- ◆ Purification (for example by recrystallisation)
- ◆ Determination of melting point
- ◆ Running and analysing IR spectrum
- ◆ Thin layer chromatography of product

## **Additional guidance and information**

We have guidance on how to use the abbreviated pro forma on SQA's [Understanding Standards](#) website.

You can find more information on [HNVQ delivery and assessment approaches for session 2023-24](#) on SQA's website.