CCSID1 Plan project management frameworks for an industrial design project

CCSID2 Identify organisational aims relevant to the industrial design project

CCSID3 Identify technological and operational capabilities available to the industrial design project

CCSID4 Carry out preliminary stakeholder behaviour research to inform industrial design strategy

CCSID4 Carry out preliminary stakeholder behaviour research to inform industrial design strategy

CCSID5 Use scenario-based analysis techniques to document current interactions and anticipate future situations and behaviours

CCSID6 Discover and prioritise detailed interaction experience targets

CCSID7 Create propositions that connect market opportunity, investor goals and available capabilities

CCSID8 create novel ideas for future interactions inspired by learning and goal setting activities

CCSID9 Plan simulation methods appropriate to interaction behaviour testing needs

CCSID10 Execute simulations using a range of appropriate techniques

CCSID11 Refine design solutions based on on-going simulation feedback

CCSID12 Produce clear, precise, actionable industrial design specifications for implementation by others

CCSID13 Collaborate effectively with other disciplines to ensure successful implementation of design intent

CCSID1
Plan project management frameworks for an industrial design project

Overview

This standard is about understanding the aims and constraints of an Industrial Design project and creating the strategy necessary to achieve a successful outcome.

CCSID1

Plan project management frameworks for an industrial design project

P1 identify project aims, scope, risks, and context

P2 plan delivery in phases appropriate to the project

P3 plan key internal activities, deliverables, timescales and resource requirements for each phase

P4 identify key external dependencies and liaison methods

P5 present project plans in a language that communicates to multiple stakeholders.

P6 assemble a team with the appropriate skills to carry out the required work

P7 manage an effective internal design team management process

CCSID1

Plan project management frameworks for an industrial design project

You need to know and understand:

K1   the concept of progressive convergence towards a final solution

K2   how to align project deliverables with key milestones

K3   how organisations assess return on investment from innovation

K4   the concept of risk analysis – technical, operational and financial

K5   how to estimate necessary resource expenditure

K6   budgetary constraints and the impact these may have on your project

K7   Industrial Design tactics appropriate to the type of project which you are undertaking

K8   how to present project planning information in clear unambiguous form using words and supporting imagery where appropriate.

K9   how to assess the specific skills necessary for the project

CCSID1

Plan project management frameworks for an industrial design project

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID1
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	industrial Design; Project Management; Design Project

CCSID2

Identify organisational aims relevant to the industrial design project

Overview

This standard is about ensuring that you have a holistic understanding of the aims and culture of the organisation for which you are undertaking an Industrial Design project.

CCSID2

Identify organisational aims relevant to the industrial design project

Performance criteria

You must be able to:

P1   identify the core purpose of the organisation

P2   identify the values and expectations of the organisation

P3   identify the change aims and time horizons for the project

P4   identify the target market

P5   identify channels to market

P6   identify the organisation stakeholders and their roles in the context of project decision making

CCSID2

Identify organisational aims relevant to the industrial design project

Knowledge and understanding

You need to know and understand:

K1 how to interpret and question a design brief to establish the relevant organisational culture and aims

K2 how Industrial Design interventions connect with organisational culture and aims

K3 how to form a valid independent assessment of external perceptions of the organisation

K4 how to summarise and communicate knowledge related to organisational culture and aims in the context of an Industrial Design project

CCSID2

Identify organisational aims relevant to the industrial design project

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID2
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design;

CCSID3
Identify technological and operational capabilities available to the industrial design project

	This standard is about how to manage assumptions for the technological and operational capabilities that would be available for use in the implementation of an Industrial Design solution within set time and investment horizons.

CCSID3

Identify technological and operational capabilities available to the industrial design project

You must be able to:

P1   maintain up to date knowledge of the technologies and processes most affected by Industrial Design decisions

P2   obtain and retain information about the core technologies and capabilities of the implementing organisation.

P3   convert general technological and operational descriptions into specific simplified constraints relevant to the creative decision making of the Industrial Design project.

P4   monitor the fit between technological/operational capability assumptions and the broader project aims.

P5   engage with other specialists to optimise the relationship between technological / operational requirements and the broader project aims.

CCSID3

Identify technological and operational capabilities available to the industrial design project

Knowledge and understanding

You need to know and understand:

K1 how to maintain up to date professional understanding of a broad range of technologies/capabilities potentially available for general Industrial Design implementation.

K2 how to interact with specialists in order to formulate simplified constraints specific to the Industrial Design project.

K3 how to assess and optimise the sustainability impact of selected technology/capability implementations.

K4 how to assess the relationship between Industrial Design decisions and technological/operational implementation risk.

K5 how to identify and anticipate the needs of other potential third party implementation stakeholders.

K6 how to make informed Industrial Design decisions that balance technological/operational implementation risk with the broader project aims.

K7 how to present justifications for the adoption of potential technologies/capabilities not currently used by the organisation.

CCSID3

Identify technological and operational capabilities available to the industrial design project

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID3
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; technological and operational capabilities;

CCSID4

Carry out preliminary stakeholder behaviour research to inform industrial design strategy

This standard is about undertaking preliminary research into stakeholder behaviours in order to inform your Industrial Design strategy. Techniques cover a broad range from direct observational methods to indirect contextual research

CCSID4

Carry out preliminary stakeholder behaviour research to inform industrial design strategy

Performance criteria

You must be able to:

P1   select research method appropriate to the project context

P2   plan the practical application of the chosen research method.

P3   accurately profile key target stakeholders involved with the in-life experience of the Industrial Design.

P4   carry out research according to plan

P5   ensure that valid and reliable evidence is gathered

P6   evaluate, collate and present information gathered

CCSID1 Plan project management frameworks for an industrial design project

CCSID2 Identify organisational aims relevant to the industrial design project

CCSID3 Identify technological and operational capabilities available to the industrial design project

CCSID4 Carry out preliminary stakeholder behaviour research to inform industrial design strategy

CCSID4 Carry out preliminary stakeholder behaviour research to inform industrial design strategy

CCSID5 Use scenario-based analysis techniques to document current interactions and anticipate future situations and behaviours

CCSID6 Discover and prioritise detailed interaction experience targets

CCSID7 Create propositions that connect market opportunity, investor goals and available capabilities

CCSID8 create novel ideas for future interactions inspired by learning and goal setting activities

CCSID9 Plan simulation methods appropriate to interaction behaviour testing needs

CCSID10 Execute simulations using a range of appropriate techniques

CCSID11 Refine design solutions based on on-going simulation feedback

CCSID12 Produce clear, precise, actionable industrial design specifications for implementation by others

CCSID13 Collaborate effectively with other disciplines to ensure successful implementation of design intent

CCSID4

Carry out preliminary stakeholder behaviour research to inform industrial design strategy

Knowledge and understanding

You need to know and understand:

K1   a range of both direct and indirect research techniques

K2   how to select techniques appropriate to specific project aims and context.

K3   how to profile and recruit target stakeholders

K4   how to brief individual research exercises

K5   how to carry out individual research exercises

K6   how to filter and collate key stakeholder insights

K7   how to present research findings in a form that inspires better Industrial Design decisions.

CCSID4

Carry out preliminary stakeholder behaviour research to inform industrial design strategy

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID4
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; stakeholder research;

CCSID5
Use scenario based analysis techniques to document current interactions and anticipate future situations and behaviours

Overview	This standard is about using scenario based analysis techniques as a framework for detailed visualisation of current and possible future interactions. You will plan scenarios to a level of detail appropriate to the scope of the Industrial Design project. You will use the scenarios to prompt more detailed anticipation of future experiences. You will need to be conversant with a number of different visualisation strategies and techniques.

CCSID5

Use scenario based analysis techniques to document current interactions and plan future situations and behaviours

Performance criteria

You must be able to:

P1   plan and execute scenario mapping strategy at a resolution appropriate to the Industrial Design project

P2   select visualisation technique(s) appropriate to the resolution, context and issues of the specific Industrial Design project

P3   create persona profiles documenting the main relevant characteristics of the key stakeholders interacting within the scenarios

P4   ensure the scenarios reflect the learning from previous stakeholder research

P5   ensure the scenarios are presented in a format tailored to the audience and to the relevant project phase

P6   develop and refine the scenarios in response to on-going project feedback learning

CCSID5

Use scenario based analysis techniques to document current interactions and plan future situations and behaviours

Knowledge and understanding

You need to know and understand:

K1   a broad range of scenario mapping techniques appropriate to different types of Industrial Design project.

K2   how to identify and imagine project specific current and future scenarios.

K3   how to analyse and give structure to the relevant scenarios

K4   how to identify stakeholders and plan useful personas

K5   how to integrate prior research into scenarios and personas

K6   how to visualise scenarios in a format suited to the project phase and usage

K7   how to use scenarios to inform and inspire project decisions at various stages of development.

CCSID5

Use scenario based analysis techniques to document current interactions and plan future situations and behaviours

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID5
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; scenario based analysis;

CCSID6
Discover and prioritise detailed interaction experience targets

---

This standard is about utilising scenario mapping to identify and prioritise desirable attributes for the many different interactions within the stakeholder experiences.

CCSID6

Discover and prioritise detailed interaction experience targets

You must be able to:

P1 use scenario maps to inform creative role-play that inspires clearer creative anticipation of future experiences.

P2 extract and prioritise from role play, word based characterisations of positive future interactions within the overall experiences.

P3 capture and document essential workflows where relevant.

P4 identify and document key interaction touch points across all relevant media.

CCSID6

Discover and prioritise detailed interaction experience targets

Knowledge and understanding

You need to know and understand:

K1   how to interpret scenario mapping tools in different formats.

K2   how to use role-play techniques to better empathise with stakeholders and discover new opportunities for better experience outcomes

K3   how to use words to characterise specific interactions within overall experiences

K4   how to describe precise workflow choreography using flow-charting tools

K5   how to recognise and document distinct touch points and their specific role within the overall experience

K6   how to create and document potential thematic frameworks that characterise overall experiences.

CCSID6

Discover and prioritise detailed interaction experience targets

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID6
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; interaction experience

CCSID7
Create propositions that connect market opportunity, investor goals and available capabilities

Overview

This standard is about creating propositions in the form of innovation strategies that make a holistic connection between unmet market needs, organisational aims and available technologies/capabilities in order to support better early feasibility / risk assessment.

CCSID7

Document creative opportunities relevant to investor mission and capabilities

Performance criteria

You must be able to:

P1   use recognised techniques to anticipate stakeholder experiences and associated unmet needs.

P2   use recognised techniques to understand organisational aims

P3   use recognised techniques to anticipate technologies and capabilities available within project parameters.

P4   imagine potential propositions arising from novel interactions between unmet needs, organisational aims and available technologies / capabilities

P5   use rapid 'internal team' visualisation techniques to self-assess, share, and refine potential propositions

P6   create compelling 'external audience' visualisations that clearly communicate potential propositions in formats and detail needed to support strategic feasibility assessments of risk / return potential.

CCSID7

Document creative opportunities relevant to investor mission and capabilities

Knowledge and understanding

You need to know and understand:

K1   how to combine insight from separate knowledge areas into a single proposition based a holistic innovation strategy

K2   how to rapidly identify and assess top level risk/reward issues.

K3   how to create opportunities out of complex, multidisciplinary, often apparently conflicting, parameters.

K4   how to rapidly visualise and internally develop early ideas into strategy recommendations.

K5   the range of available visualisation techniques and the criteria for selecting which of these would be most effective in any given project situation

K6   how to create visually compelling presentations that clearly communicate stakeholder interactions with the propositions, the supporting insights and top level implementation issues.

CCSID7

Document creative opportunities relevant to investor mission and capabilities

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID7
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; design opportunities;

CCSID8
create novel ideas for future interactions inspired by learning and goal setting activities

Overview	This standard is about converting holistic understanding of the project goals and context into free flowing, continuously evolving ideas.

CCSID8

create novel ideas for future interactions inspired by learning and goal setting activities

Performance criteria

You must be able to:

P1   imagine desirable outcomes and how they might be achieved

P2   create large numbers of ideas on demand

P3   create ideas effectively in both solo and group situations

P4   externalise ideas in whatever format best supports the creative thought process

P5   use self-critical skills to analyse your own ideas from a variety of perspectives

P6   use self-critical analysis as the inspiration for the evolution of ideas

P7   use other people's idea as positive creative inspiration in group ideation situations

P8   resolve conflicting goals or ideas

P9   progressively evolve individual ideas into thematically grouped sets

P10   plan and execute different concurrent solution option strategies

CCSID8

create novel ideas for future interactions inspired by learning and goal setting
activities

Knowledge and understanding

You need to know and understand:

K1 how to nurture a strong, on-going personal creative mind-set

K2 how to use a range of established techniques to address creative blockages when these occur

K3 how to convert challenges into opportunities

K4 how to address, simultaneously a broad, multi-disciplinary range of challenges

K5 how to manage an appropriate balance between objective and subjective decision making

K6 how to use a range of established rapid techniques to externalise early ideas in formats that enable continuous assessment and evolution

K7 how to assess and mitigate the conceptual risks potentially resulting from Industrial Design decisions.

CCSID8

create novel ideas for future interactions inspired by learning and goal setting activities

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID8
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; interaction experience

CCSID9

Plan simulation methods appropriate to interaction behaviour testing needs

---

Overview   This standard is about selecting and planning the presentation and simulation
                                methods that best support early feedback from various project stakeholders.

CCSID9

Plan simulation methods appropriate to interaction behaviour testing needs

Performance criteria

You must be able to:

P1   recognise which Industrial Design decisions require early validation feedback

P2   recognise which project stakeholders need to be consulted and when

P3   make effective connections between Industrial Design decisions, learning aims and appropriate simulation media.

P4   make informed decisions that balance the investment cost of simulations and their learning benefit

P5   understand how to plan an orderly progression of simulation characteristics from diverse low cost towards selective high cost

P6   manage the delivery of individual simulation exercises

CCSID9

Plan simulation methods appropriate to interaction behaviour testing needs

Knowledge and understanding

You need to know and understand:

K1   how to assess and evolve learning goals throughout an Industrial Design project

K2   how to remain abreast of a broad and evolving range of simulation techniques relevant to services, software and physical objects, that anticipate both human interaction behaviour and implementation feasibility

K3   For each simulation technique:

    K3.1   what skills and facilities are required to deliver it.

    K3.2   how much it costs

    K3.3   how quickly it can be created

    K3.4   how realistically it anticipates known types of learning issue

    K3.5   what is the risk of misinterpretation by the review audience

    K3.6   what can be done to mitigate interpretation risk

K4   how to cost effectively match simulation techniques to learning goals

K5   how to cost effectively connect simulation review audience selection to industrial design decisions

K6   how to manage the risk of accessing a simulation review audience according to plan

CCSID9

Plan simulation methods appropriate to interaction behaviour testing needs

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID9
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; design simulation methods; interaction behaviour testing;

CCSID10
Execute simulations using a range of appropriate techniques

Overview   This standard is about creating simulations in a variety of formats to allow assessment of the user interaction behaviour and feasibility of design concept options.   Proficiency in a broad range of formats is expected

CCSID10

Execute simulations using a range of appropriate techniques

Performance criteria

You must be able to:

P1   hypothesise about what needs to be visualised to best understand and communicate any specific design idea or design challenge

P2   visualise ideas rapidly in sketch form appropriate to self-review or review by small teams of co-professionals

P3   conduct rapid visualisations in the form of paper sketches, foam models and simple interaction visualisations such as workflow diagrams and storyboards

P4   create more sophisticated higher realism, visualisations: 3D CAD models, software user interaction simulations, service experience visualisations in the form of storyboards and simple video animations and marketing communication material simulation

P5   self-plan a level of simulation detail appropriate to the design issues under investigation and project strategy

P6   regularly self-assess whether or not the simulation in progress is fit for its learning purpose and revise tactics accordingly, throughout the creation phase

CCSID10

Execute simulations using a range of appropriate techniques

Knowledge and understanding

You need to know and understand:

K1   the overall project aims

K2   the specific project aims of the current project phase

K3   the specific learning aim of each individual simulation activity

K4   the current status of the design goals and challenges

K5   how to execute core simulation techniques in which every Industrial Designer must have proficiency:

    K5.1 rapid 2D techniques:

        K5.1.1 free hand sketching of objects, people and environments

        K5.1.2 scenario storyboards and schematic workflows

    K5.2 rapid 3D sketching skills

    K5.3 foam modelling

    K5.4 card modelling

    K5.5 basic wooden rig fabrication

    K5.6 rapid time based techniques:

        K5.6.1 paper based and simple programming based simulation of 'cause and effect' of critical aspects of user interaction sequences.

K6   how to execute advanced simulation techniques:

    K6.1 3D CAD modelling with ability to create complex form topologies

    K6.2 high realism 'virtual photography' based on 3D CAD models

    K6.3 use of rapid prototyping technology to create tangible object simulations

    K6.4 simple animations of 3D CAD models

    K6.5 video animations of interaction storyboards

    K6.6 video shorts of simulated interpersonal interactions

    K6.7 detailed software interaction simulations

    K6.8 simple 'proof of concept' working rigs.

K7   how to brief other simulation specialists regarding the precise requirements for sophisticated simulations that require a level of specialist skill beyond the requirements of Industrial Design professionals

CCSID10

Execute simulations using a range of appropriate techniques

K7.1 photo realistic appearance models

K7.2 complex freehand clay modelling

K7.3 'virtual realism' quality computer rendering

K7.4 complex video production

K7.5 complex software interaction simulations

K7.6 complex working technical rigs

CCSID10

Execute simulations using a range of appropriate techniques

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID10
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; interaction experience

CCSID11
Refine design solutions based on on-going simulation feedback

Overview This standard is about how to assess simulations and use the learning to inform and inspire the development of a design solution.

CCSID11

Refine design solutions based on on-going simulation feedback

You must be able to:

P1   identify what specific properties of each simulation provide useful feedback.

P2   identify what specific properties of each simulation pose a danger of misleading evidence

P3   plan and execute routine on-going 'self-assessment' evaluations of simulations both during their construction and on completion

P4   use role play techniques to achieve high levels of personal empathy with the target audience for the design solution

P5   conduct interactive 'co-creation' learning sessions with users

P6   present simulations to other stakeholders in ways that clearly communicate their purpose and limitation

P7   use the presentation of simulations to clearly explain the potential risks and rewards of the design solution under assessment

P8   invite, collect and interpret independent external assessments of simulations, both pro-actively and as part of formal project reviews

P9   refine design solutions in the areas in which the simulation has provided valid feedback

P10 collate information obtained from the assessments and where relevant keep formal project goal documentation current and aligned with the most current learning

P11 document desirable design changes based on the learning

P12 study what impact the changes may have on other aspects of the design, or on goals and constraints

P13 decide on design refinements to be implemented

P14 update design documentation to reflect the changes

CCSID11

Refine design solutions based on on-going simulation feedback

Knowledge and understanding

You need to know and understand:

K1 the project objectives and target user interaction scenarios

K2 the agreed project parameters for search scope and assumptions for implementation

K3 how to set up or support simulation review sessions across a broad range of situations, from frequent internal self-assessments to formal reviews involving non design stakeholders such as other parties involved with project delivery or end users

K4 how to adopt a personally empathic mind set, well connected to the characteristics of end users and other stakeholders, especially those with strong differences to the creating designer for example older consumers, pregnant women or specialist professionals

K5 how to use frequent self-assessment of simulations to clarify one's personal understanding of how to label and evolve design ideas

K6 how to extract qualitative and quantitative feedback from simulation assessments

K7 how to rapidly connect broader design aims with the specific learning available from self-assessment of individual simulation and refine design solutions accordingly

K8 how to document and report to third parties on the learning from self-assessments

K9 how to record and report the collective findings of a group review sessions

K10 how to interpret the learning reported by external assessors making use of the project simulations

K11 where and how the current design is documented and how to keep this documentation up to date and properly labelled with a unique reference

K12 how to ensure the planned design changes have the necessary consent or consensus

CCSID11

Refine design solutions based on on-going simulation feedback

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID11
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; design solutions; simulation feedback;

CCSID12
Produce clear, precise, actionable industrial design specifications for implementation by others

Overview	This standard is producing a clear and precise industrial design specification that can be implemented by others.

CCSID12

Produce clear, precise, actionable industrial design specifications for implementation by others

Performance criteria

You must be able to:

P1   identify and agree with appropriate people the content and form of information required

P2   produce clear and concise information that explains the design approach

P3   prepare complete and accurate technical information to communicate the requirements for design realisation

P4   identify clear and give clear reasons for any amendments to the design brief

CCSID12

Produce clear, precise, actionable industrial design specifications for implementation by others

You need to know and understand:

K1   how to prepare and present written material in support of a design

K2   how to research information about design realisation

K3   how to present technical information using conventions appropriate to your specialism

K4   the requirements and constraints for design realisation

K5   sources of information on design realisation

CCSID12

Produce clear, precise, actionable industrial design specifications for implementation by others

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID12
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; design specification; design implementation

CCSID13

Collaborate effectively with other disciplines to ensure successful implementation of design intent

<table>
<tr><td>**Overview**</td><td>This standard is about ensuring the successful implementation of the design intent, through effective collaboration with those involved in the implementation phase of the project. You will need to handover over the project to those involved in the implementation ensuring that they fully understand the requirements and the constraints. You will continue to provide support to others throughout the project implementation promptly resolving any issues that arise.</td></tr>
</table>

CCSID13

Collaborate effectively with other disciplines to ensure successful implementation of design intent

Performance criteria

You must be able to:

P1   communicate effectively with the other parties responsible for Idustrial Design implementation to ensure the Industrial Design requirements are clearly understood

P2   take timely action to correct any misunderstandings

P3   interact with the other parties responsible for implementation to understand their response to the Industrial Design requirements

P4   respond to challenges to the Industrial Design specification in a balanced holistic manner that ensures the minimum compromise to the project's customer experience objectives without demanding larger compromises to other strategic project objectives such as cost or delivery timescales

P5   agree changes where necessary and gain approval for these changes from the relevant project control authority

P6   effectively implement agreed and authorised changes to the Industrial Design specification

P7   maintain correct documentation control discipline during periods of frequent information releases

P8   establish and execute a schedule of clear milestones at which to review interim implementations and verify their compliance to the Industrial Design specification

P9   keep project commissioning and control stakeholders adequately briefed on the status of the implementation relative to the Industrial Design specification

P10   ensure the implementation is supported up to a clear agreed 'Industrial Design sign off' milestone

CCSID13

Collaborate effectively with other disciplines to ensure successful implementation of design intent

Knowledge and understanding

You need to know and understand:

K1   the overall strategic and commercial aims of the project

K2   the capabilities of the implementation strategies and processes that will be required to implement the Industrial Design

K3   the key customer experience excellence aims of the project

K4   the roles, responsibilities and special interests of the other project stakeholders

K5   the general communication challenges presented by the project context

K6   how to set up and execute a project specific liaison strategy from Industrial Design handover to sign off

K7   the specific challenges faced by specialists implementing the Industrial Design specification for the project in question

K8   the full range of modern communication and information transfer techniques

K9   the application of recognised document control and quality assurance techniques

K10 the exact details of how to apply any project specific project management and control practices especially those relevant to inter-disciplinary handovers and communication

K11 how to communicate effectively using precise terminology relevant to the other specialists implementation parties in any conversation

K12 how to respond appropriately and constructively to any queries or problems raised during the implementation phase

CCSID13

Collaborate effectively with other disciplines to ensure successful implementation of design intent

Developed by	Creative & Cultural Skills
Version number	1
Date approved	November 2013
Indicative review date	May 2016
Validity	Current
Status	Original
Originating organisation	Creative & Cultural Skills
Original URN	CCSID15
Relevant occupations	Industrial Designer
Suite	Industrial Design
Key words	Industrial Design; design specification; design implementation