

QDD Journey Course 2 Syllabus

Instructor

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IEEE Senior Member

Office Location

Virtual video
conferencing (Zoom).

*QDD Journey Discussion
Group* for forum
discussions.

Office Hours

Posted hours are “office
hours” when the
instructor is available or
live online and/or live
chat on the QDD Journey
forum.

Hours are published on
the QDD Journey Calendar
which can be accessed
through the learning
portal.

Course Overview

Course 2: Design with Quality and Reliability

Learner prerequisites

This course is created for learners involved in product design development. An engineering degree or background is useful but is not a prerequisite to this course.

Topics

We'll be covering this topic: use frameworks for (you and your) teams to explore, prioritize, and iterate on the product design at an early concept phase.

Learning objectives

The specific learning objectives of this course are:

- Analyze concept designs for DfX (design for excellence).

Course Materials and Resources

Learners must have internet access to the website qualityduringdesign.com. Lessons include content that opens in a webpage for download.

Learners may find speakers or headphones useful to enjoy the videos, but they are not necessary: transcripts are available, and the videos have closed captioning. Learners may also want to print templates or worksheets for practice problems.

Course Schedule

Learners can expect the lesson presentation, materials, and practice problems to take approximately 1 to 2 hours per lesson.

Week	Subject	Practice Problems
Week 1	Lesson 1: Diagram concepts to communicate for design inputs	Create three diagrams with the cross-functional team input to develop a design concept.

Quality and Reliability Engineering Tools Introduced and Used in the Course

Graphical tools and organizers you'll be able to reproduce: schematic diagram, geometric layout, and incidental interactions diagram.